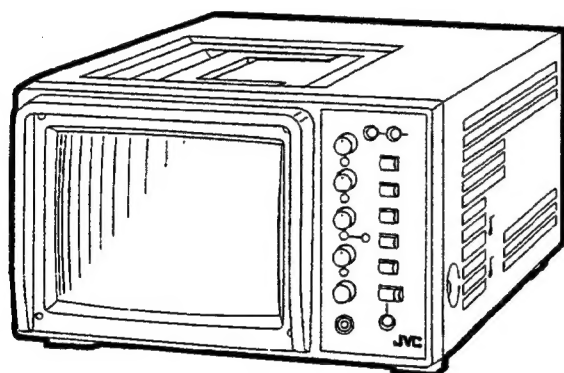


JVC

SERVICE MANUAL

COLOUR VIDEO MONITOR

TM-600PN-E



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SPECIFICATIONS

Item	Content	Item	Content
Type	Colour video monitor	Input A,B	Video-BNC
Colour system	NTSC/PAL system		1VP-P,75ohms,negative sync
CRT	15cm(measured diagonally) ,90°deflection,in-line gun,vertical pitch stripe phosphor of 0.42mm(A14JJD68X)		Bridged connection is possible (A termination switch is provided)
Audio output	0.5W 8Ω 10% THD		Audio-RCA pin connector
Speaker	8cm round ×1		390mVrms,high impedance
Screen size(H×V)	4-7/16" ×3-5/16"		Bridged connection is possible
Scanning frequency	NTSC(H)15.625kHz,(V)59.94Hz PAL(V)15.625kHz,(V)50Hz	EXT sync	BNC
Horizontal Resolution	More than 250 lines		4VP-P,75ohms,negative sync
Power requirements	AC100 to 120V,50/60Hz; DC12V	Weight	Bridged connection is possible
Power consumption	AC0.57A,DC2.7A	Accessories	4.9kg
			Power cord (approx 2.0m) ×1
			Screen hood ×1
			Rear Guard ×1set
			Inner battery adapter ×1

Design & specification subject to change without notice.

Note:

The model number **TM-600PN-E** is not a correct number.

The correct number is **"TM-600PN"**.

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may create shock, fire, or other hazards.
4. **Don't short between the LIVE side ground and NEUTRAL side grounding or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (⊥) side GND, the NEUTRAL (↗) side GND and EARTH (⊕) side GND. Don't short between the LIVE side GND and NEUTRAL side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and NEUTRAL side GND or EARTH side GND at the same time. If above note will not be kept, a fuse or any parts will be broken.
5. If any repair has been made to the chassis, it is recommended that the B₁ setting should be checked or adjusted (See ADJUSTMENT OF B₁ POWER SUPPLY).
6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

9. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

• Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

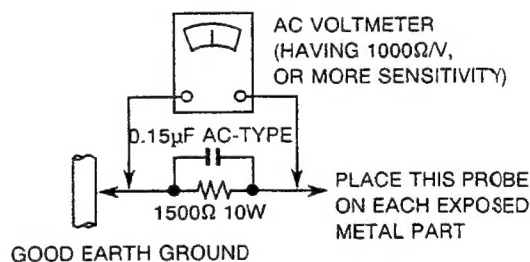


Fig.A

OPERATING INSTRUCTIONS

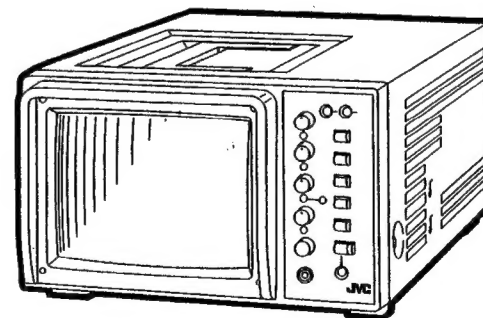
INSTRUCTIONS

JVC

TM-600PN-E

COLOUR VIDEO MONITOR

BEDIENUNGSANLEITUNG : FARB-VIDEO-MONITOR
MANUEL D'INSTRUCTIONS: MONITEUR VIDEO COULEUR
MANUALE DI ISTRUZIONI: VIDEO MONITOR A COLORI
INSTRUCCIONES : MONITOR DE VIDEO A COLOR



JVC
VICTOR COMPANY OF JAPAN, LIMITED

Printed in Japan
TM-600PN-E-1BA
A1

Thank you for purchasing this JVC colour video monitor. Please carefully read this instruction manual for proper use.

SAFETY PRECAUTIONS

In order to prevent any fatal accidents caused by misoperation or mishandling of the monitor, be fully aware of all the following precautions.

WARNINGS

To prevent fire or shock hazard, do not expose this monitor to rain or moisture.

Dangerous high voltages are present inside the unit. Do not remove the back cover of the cabinet.

When servicing the monitor, contact qualified service personnel. Never try to service it yourself.

Machine Noise Information Ordinance 3. GSGV, January 18, 1991: The sound pressure level at the operator position is equal or less than 70 dB(A) according to ISO 7779.

Improper operations, in particular alteration of high voltage or changing the type of tube may result in x-ray emission of considerable dose. A unit altered in such a way no longer meets the standards of certification, and must therefore no longer be operated.

PRECAUTIONS

- Only use the power source specified on the rating label located on the bottom of the cabinet.
- When not using this unit for a long period of time, or when cleaning it, be sure to disconnect the power plug from the AC outlet.
- Do not allow anything to rest on the power cord. And do not place this unit where people will tread on the cord.
- Do not overload wall outlets or power cords as this can result in a fire or electric shock.
- Avoid using this unit under the following conditions:
 - in extremely hot, cold or humid places,
 - in dusty places,
 - near appliances generating strong magnetic fields,
 - in places subject to direct sunlight,
 - in badly ventilated places,
 - in automobiles with doors closed.
- Do not cover the ventilation slots while in operation as this could obstruct the required ventilation flow.
- When dust accumulates on the screen surface, clean it with a soft cloth.
- Unplug this unit from the AC outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power cord is frayed or the plug is damaged,

- If liquid has been spilled into the unit,
- if the unit has been dropped or the cabinet has been damaged,
- when the unit exhibits a distinct change in performance.
- Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Always refer servicing to qualified service personnel.
- When replacement parts are required, have the service personnel verify in writing that the replacement parts he/she uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.
- Upon completion of any servicing or repair work to this unit, please ask the service personnel to perform the safety check described in the manufacturer's service literature.
- When this unit reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask qualified service personnel to dispose of this unit.
- If you do not use the unit for a long period of time, disconnect the power cord and remove the inner battery for battery-saving and safety purposes.

FEATURES

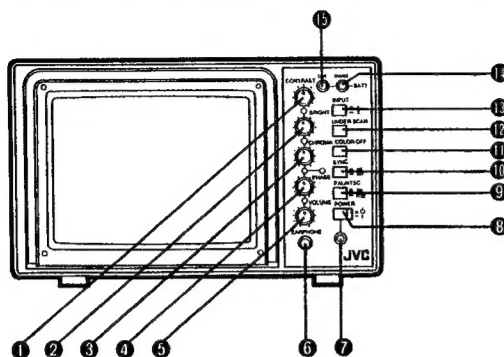
- Three types of power source can be selected as required: domestic AC outlets, inner batteries, and outer batteries.
- Battery saving function makes battery duration last longer.
- Built-in charge circuit for optional rechargeable batteries.
- LED indicates when the duration of rechargeable battery becomes almost empty.
- Two sets of video and audio input terminals.
- External sync signal input/output terminals.
- Compatible with NTSC and PAL colour systems.
- 15-cm picture tube reproduces bright and clear pictures.
- Space-saving design with convenient carrying handle.
- Screen hood useful to make outdoor viewing easier.

CONTENTS

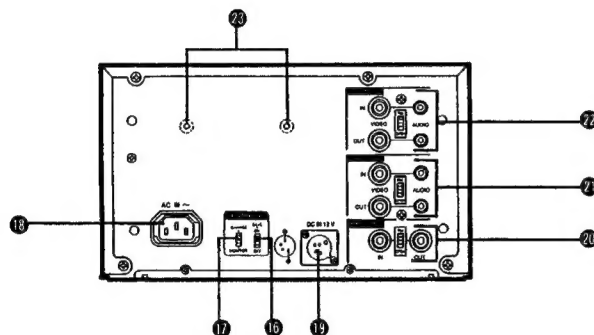
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CONTROLS, LOCATIONS, FUNCTIONS

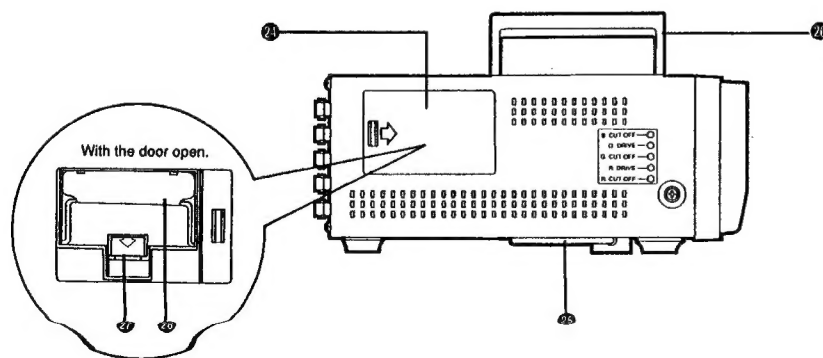
■Front



■Rear



■Side



■Front

1 CONTRAST control

Light Strong
Turn to adjust the picture contrast.

2 BRIGHT control

Dark Bright
Turn to adjust the picture brightness.

3 CHROMA control

Thin Dense
Turn to adjust the colour density of the picture.

4 PHASE control

Reddish Greenish
Turn to adjust the picture hue. Adjust with reference to skin colour. (This control only operates when NTSC signals are input to the unit.)

5 VOLUME control

Decrease Increase
Turn to adjust the audio level of the connected earphone or built-in speaker.

6 EARPHONE jack

To connect an optional earphone. No sound is heard from the built-in speaker when in use.

7 POWER Indicator

Lights green when the power is ON. If the power is supplied from the inner battery, it changes from green to red, indicating when the duration of the inner battery becomes almost empty. If it turns red, charge the inner battery or replace it with another one.

Notes:

- When using the DC IN 12 V terminal, if the indicator changes from green to red, defining that the input voltage has decreased. If using an outer battery, replace it with a charged one.
- Be sure to turn the power OFF before replacing the battery.

8 POWER button

Press to turn the power ON/OFF.
(): The power is OFF; the POWER Indicator is turned off.
(): The power is ON; the POWER Indicator is turned on.

9 PAL/NTSC button

Press to switch the colour system (PAL/NTSC), according to the input signal.

(): When a PAL signal is input.
(): When an NTSC signal is input.

10 SYNC button

Press to select the external sync operation. When performing the external sync operation, input a sync signal to the rear EXT SYNC terminal.

(): When operating the unit using the sync signal of the input video signal. (Normally set to this position.)
(): When operating the unit using an external sync signal.

11 COLOR OFF button

Press to obtain monochrome pictures. Use to check white balance, etc.

(): Normal colour pictures.
(): Monochrome pictures.

12 UNDERSCAN button

Press to change the scanning mode between overscanning and underscanning.

(): Overscanning.
(): Underscanning.

13 INPUT button

Press to select the video and audio signals input to the INPUT A or INPUT B terminal.

(): When selecting the video and audio signals of the component connected to the INPUT A.
(): When selecting the video and audio signals of the component connected to the INPUT B.

14 BATTERY CHARGE Indicator

When setting the BATTERY CHARGE switch on the rear of the unit to "CHARGE", it lights. While the inner battery is being charged, it lights red. The indicator turns green when charging is complete.

15 BATTERY SAVE Indicator

When the BATTERY SAVE switch is ON, the indicator lights green. Once in operation, it turns red.

■Rear

16 BATTERY SAVE switch

When ON, the unit continues to operate as long as a video signal is input. When no video signal is input, the unit's power turns OFF, except for the operation of the detection circuit. This function can also be used for extending the battery's lifetime.

Note:

This function has no effect on the AC power supply.

17 BATTERY CHARGE switch

Switch to select between inner battery charging or unit operation.

CHARGE : For inner battery charging.

MONITOR : For unit operation.

Note:

This function has no effect on any power source via the DC IN 12 V terminal.

18 AC IN terminal

Connect the provided power cord.

19 DC IN 12 V terminal

Connect to a DC 12 V power source (batteries, etc.).

Caution : When power is supplied through the AC IN terminal, it cannot be supplied through the DC IN 12 V terminal at the same time, and the inner/outer battery power is automatically turned off.

20 EXT SYNC terminals

IN and OUT terminals of the external sync signal. (Bridged connection is possible.)

● **Termination switch**

75 Ω : When connecting (inputting) to the IN terminal only.

OPEN : For a bridged connection.

21 INPUT B terminals

IN and OUT terminals of the video and audio signals. (Bridged connection is possible.)

● **Termination switch**

75 Ω : When connecting (inputting) to the IN terminal only.

OPEN : For a bridged connection.

22 INPUT A terminals

IN and OUT terminals of the video and audio signals. (Bridged connection is possible.)

● **Termination switch**

75 Ω : When connecting (inputting) to the IN terminal only.

OPEN : For a bridged connection.

23 Installation holes for an outer battery

If a battery other than the inner one is required, install the battery adapter.

Note:

The installation holes are M4 in diameter, 12 mm in depth; the distance between the two holes is 60 mm.

■Side

24 Inner battery compartment door

Open to install and remove the exclusive inner battery.

25 Tilt lever

Set this lever to tilt the unit by approximately 15°.

Cautions:

● Do NOT put weight on the unit with the tilt lever set.

● Do NOT carry the unit by holding the tilt lever.

26 Carrying handle

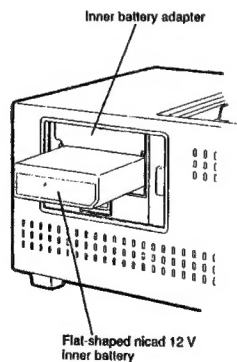
Lift up the handle to carry the unit.

27 BATTERY EJECT button

Push down the button as indicated to eject the inner battery.

28 Inner battery adapter

Use with a flat-shaped nicad 12 V inner battery. Contact your local dealer for details.



PROVIDING POWER SUPPLY TO THE UNIT

This unit operates with any of the following three types of power source: domestic AC outlets, inner batteries, or outer batteries. By connecting the power cord to one of the power input terminals, the unit automatically selects that power source. Be careful that this selection must be under the following conditions:

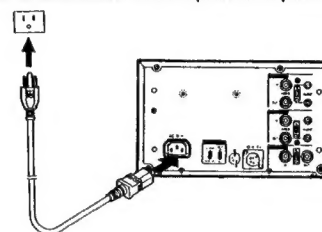
Power source priority table

When using the following power source	Correct connection	
	AC IN terminal	DC IN 12 V terminal
AC outlet	Yes	*Yes/No
Outer battery	No	Yes
Inner battery	No	No

* Even if the DC IN 12 V terminal is connected, AC IN has priority.

■ **Using an AC Outlet**

Follow the instructions below to provide the power supply to the unit from a domestic AC outlet.



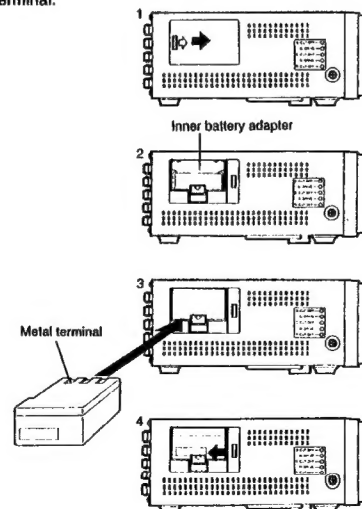
1. Set the BATTERY CHARGE switch to "MONITOR".
2. Connect the provided power cord to the AC IN terminal, then connect the power plug to an AC outlet.

■ **Using an Inner Battery**

This unit operates with either of the two types of inner battery: JVC NB-G1U or flat-shaped nicad 12 V inner battery. To provide the power supply from an inner battery, it should be charged in advance by installing it in the unit. The batteries' usage duration is approx. 40 minutes.

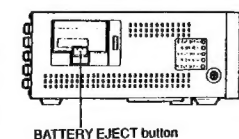
Note:

When providing the power supply to the unit from the inner battery, do not connect the AC IN or DC IN 12 V terminal.

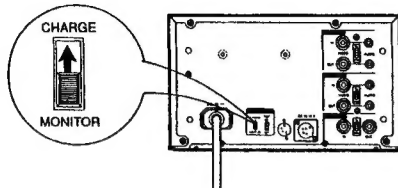
◆ **Installing and removing the inner battery**

1. Slide the battery compartment door in the direction of the arrow to open it.
2. Pull the inner battery adapter inside the battery compartment door towards you to remove it.
* When using a flat-shaped nicad 12 V inner battery, do not remove the battery adapter.
3. Install the inner battery with the metal terminal section facing upwards. Insert the battery until it is securely locked (click is heard).
IMPORTANT: Be careful NOT to forcefully install the inner battery with the metal terminals facing downwards as it cannot be removed.
4. Close the door.

When removing the inner battery, open the door and push down the BATTERY EJECT button. The battery is released, and then it can be removed.



IMPORTANT: To avoid the inner battery from hitting your finger, while pressing the BATTERY EJECT button, support the battery with your other hand.



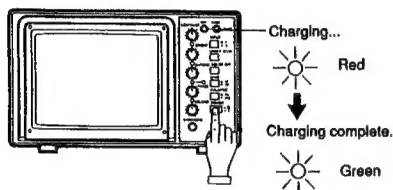
◆ Charging the inner battery

1. Install the inner battery in the unit.
2. Connect the provided power cord to the AC IN terminal.
3. Set the BATTERY CHARGE switch to "CHARGE".
4. Set the POWER button to ON.
The BATTERY CHARGE indicator lights to indicate when the unit begins charging.
The BATTERY CHARGE indicator changes from red to green, indicating that charging is complete.
5. After charging is complete, set the POWER button to OFF and set the BATTERY CHARGE switch to "MONITOR".

CAUTIONS:

Regarding the inner battery

- The unit completes charging in approx. 15 hours. To avoid the inner battery from overcharging, reset the POWER button to OFF as soon as the BATTERY CHARGE indicator turns green.
- Be careful not to short-circuit the battery terminal by touching it with metal objects; it could be dangerous and damage the inner battery.
- Keep the terminals clean. If they become dirty, wipe with a cloth.
- Do NOT throw the inner battery into a fire or leave it in places with a hot temperature.



Battery attributes

- Even if a charged battery is left unused, its power will gradually discharge.
- Rechargeable batteries have a certain lifespan. (They cannot be used permanently.)
- If the battery is repeatedly charged without discharging the power, the battery lifetime may become shorter.
- Though a battery becomes warm during and just after charging, it is not a malfunction.

Allowable temperatures

In charge : +10°C to +35°C
In storage : -10°C to +30°C

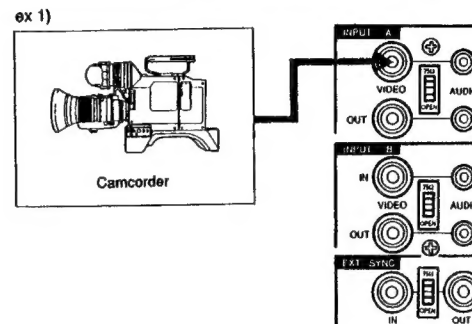
- After a rechargeable battery has been stored and left unused for a long period of time, the recharging capacity may become less. However, repeated use will gradually restore this condition.

CONNECTING TO EXTERNAL EQUIPMENT

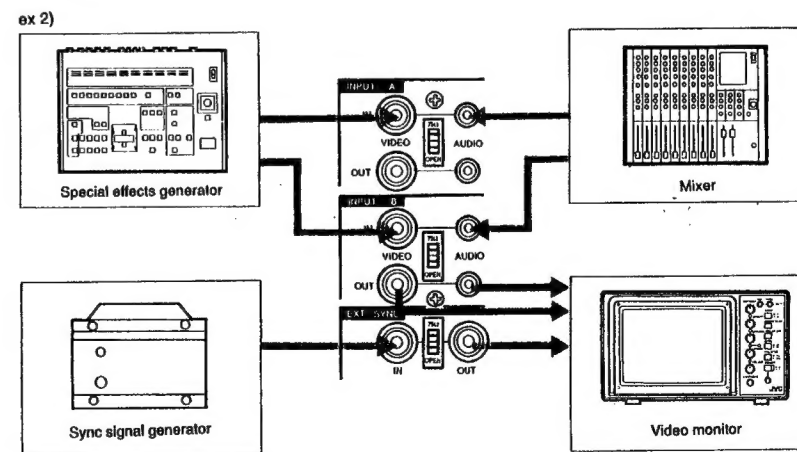
Notes:

- Be sure to disconnect the power plug from the power source before connecting to other equipment.
- Refer to the instruction manuals of the equipment to be connected.
- When using any of the OUT connectors (bridged output), set their termination switches to "OPEN".

■ Basic Connections (When Using as a Monitor for ENG/EFP)



■ Systematic Connections (When Performing Editing with an External Sync and Bridged Connection)



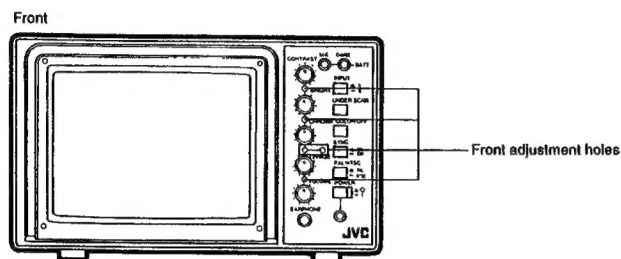
FOR SERVICE PERSONNEL

There are switches and controls for service personnel on and inside the right and left side panels of the unit. Do NOT adjust them except in cases when adjustment is specially required.

WARNINGS:

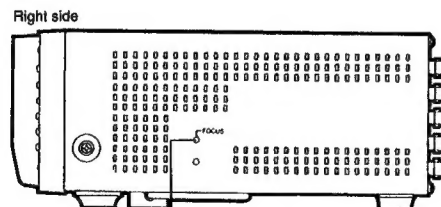
- The user must NEVER touch inside the unit because it is dangerous.
- Use an insulated screwdriver for adjustments.

■ Front Adjustment Holes (CONTRAST/BRIGHT/CHROMA/PHASE Subcontrols)



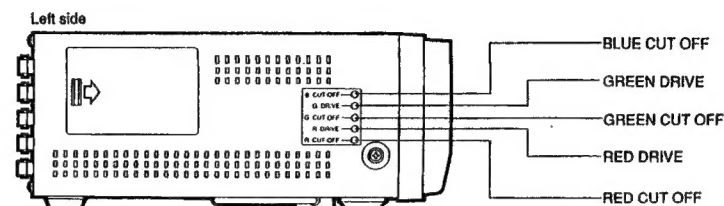
CAUTION: There are two CHROMA adjustment holes; the left one is for NTSC signals and right for PAL signals.

■ Right-Side Adjustment Hole (FOCUS Control)



FOCUS control
Turn to adjust the focus voltage.

■ Left-Side Adjustment Holes (CUT OFF/DRIVE Controls)



CUT OFF controls

Turn to adjust the white balance of low-luminance signals.

DRIVE controls

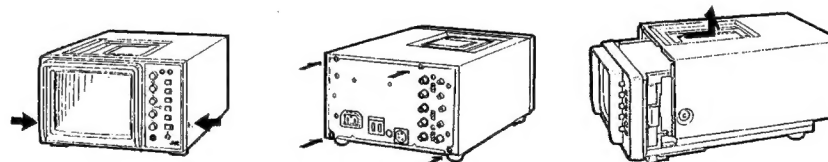
Turn to adjust the white balance of high-luminance signals.

Note:

Use an adjustment screwdriver to turn the screws in the adjustment holes. Turn left to decrease and turn right to increase.

- ◆ The NORMAL/SERVICE switch required to adjust the CUT OFF controls of the white balance is inside the unit. Remove the top cover of the unit and set the switch to "SERVICE" if necessary.

Removing the top cover

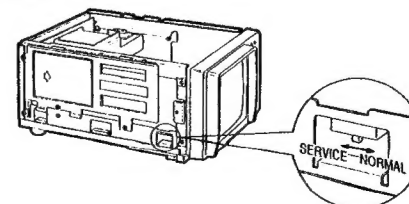


1. Remove the screw from each side of the unit as shown.

2. Remove the four screws from the rear of the unit.

3. Remove the top cover by sliding it backwards, then lifting it up.

Set the NORMAL/SERVICE switch



INSTALLING THE SCREEN HOOD

The provided screen hood is useful to make the monitor screen easier to view when the unit is used in bright places, such as outdoors. Install the screen hood by wrapping it around the screen frame using the velcro and adhesive tapes. After installation, the screen hood can be detached and attached as required.

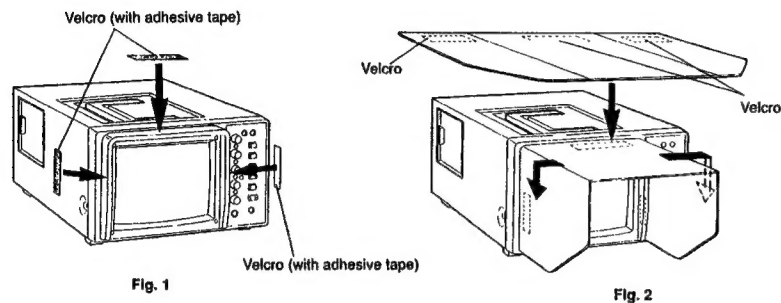


Fig. 1

Fig. 2

◆ Installation

1. Using a cloth, clean the surfaces of the screen frame shown with the arrows, so that the adhesive tapes can be securely attached. (See Fig. 1.)
2. After removing the protective covers from the adhesive sides of the three pieces of velcro, attach each piece of velcro to the three sections on the screen frame, shown with the arrows. (See Fig. 1.)
3. Install the screen hood by wrapping it around the screen frame, as shown. (See Fig. 2.)

Note:

Do not attempt to remove the already attached tapes from the screen frame of the unit because it could result in discoloration of the screen frame.

INSTALLING THE REAR GUARDS

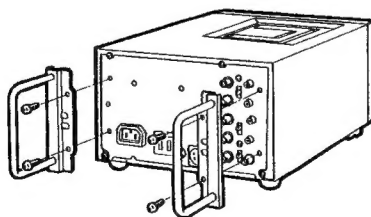
The rear terminals and connection cables can be protected by installing the provided Rear Guards. Install them if necessary.

Installing the Rear Guards:

Install the two Rear Guards to the rear panel using the provided four screws, as shown.

CAUTION:

With the Rear Guards installed, do NOT stand the unit vertically (with the screen facing upwards). This could cause the unit to accidentally fall down.



BEFORE CALLING FOR SERVICE

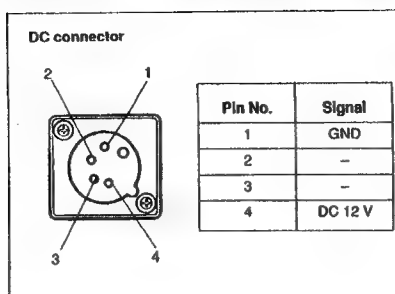
• Check the following items once more:

Problems	Points to be checked	Measures
No power supply.	If a domestic AC power outlet is used, check the provided cable is properly connected to the unit and AC socket.	If the power cable is disconnected, reconnect it.
	If a battery is used, check the battery is charged. Note: When a plug is connected to the DC IN 12 V terminal, the inner battery is not operative	If the battery is not charged, recharge it.
	If the power is supplied via the DC IN 12 V terminal, check that the power cable is properly connected. (If using an outer battery, check that it is charged.)	If the cable is disconnected, reconnect it. If the battery is not charged, recharge it.
No (or blurred) pictures.	Check whether or not the input is correctly selected.	If it is incorrectly selected, press the INPUT button until normal pictures are obtained.
	Check whether or not the BATTERY CHARGE switch is set to "CHARGE".	If it is set to "CHARGE", reset to "MONITOR".
	Check whether or not the rear video terminals are correctly connected.	If they are disconnected, reconnect them.
	Check whether or not the BRIGHT control is correctly adjusted.	If it is incorrectly adjusted, readjust the picture brightness.
	Check whether or not the external output components operate normally.	If they operate abnormally, repair them.
Abnormal pictures or wrong colours.	Check whether or not there is something which generates a magnetic field (motor, speaker, transformer, magnet, etc.) near the monitor.	If there is anything of this kind, move the units apart.
No sound.	Check the audio level control.	If it is incorrectly adjusted, readjust it to its appropriate level.
	Check whether or not the earphone is connected to the earphone jack.	If it is connected, disconnect the earphone plug.
	Check whether or not the rear audio input terminals are correctly connected.	If they are disconnected, reconnect them.

SPECIFICATIONS

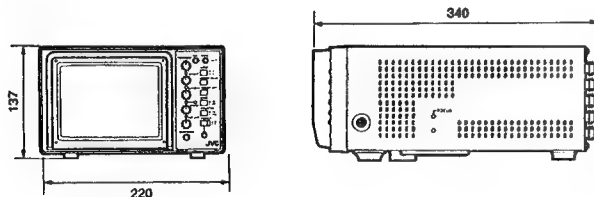
Type	: Colour video monitor
Colour system	: NTSC/PAL system
CRT	: 15-cm (measured diagonally), 90° deflection, in-line gun, vertical pitch stripe phosphor of 0.42 mm
Audio output	: 0.5 W 8 Ω 10 % THD
Speaker	: 8-cm round x 1
Screen size (H x V)	: 113 x 84 mm
Scanning frequency	: NTSC (H) 15.734 kHz, (V) 59.94 Hz PAL (H) 15.625 kHz, (V) 50 Hz
Horizontal resolution	: More than 250 lines
Power requirements	: AC 100 to 240 V, 50/60 Hz; DC 12 V
Power consumption	: AC Max. 0.57 A; DC 2.7 A
Input A, B	: Video – BNC 1 V p-p, 75 ohms, negative sync Bridged connection is possible (A termination switch is provided) Audio – RCA pin connector 390 mV rms, high impedance Bridged connection is possible
EXT sync	: BNC 4 V p-p, 75 ohms, negative sync Bridged connection is possible (A termination switch is provided)
Weight	: 4.9 kg
Accessory	: Power cord (approx. 2.0 m) x 1 Screen hood x 1 Rear Guard (1 set) Inner battery adapter x 1 (already installed in the inner battery compartment)

Pin Assignment



Design and specifications subject to change without notice.

Dimensions (Unit: mm)



MAIN PARTS LOCATION

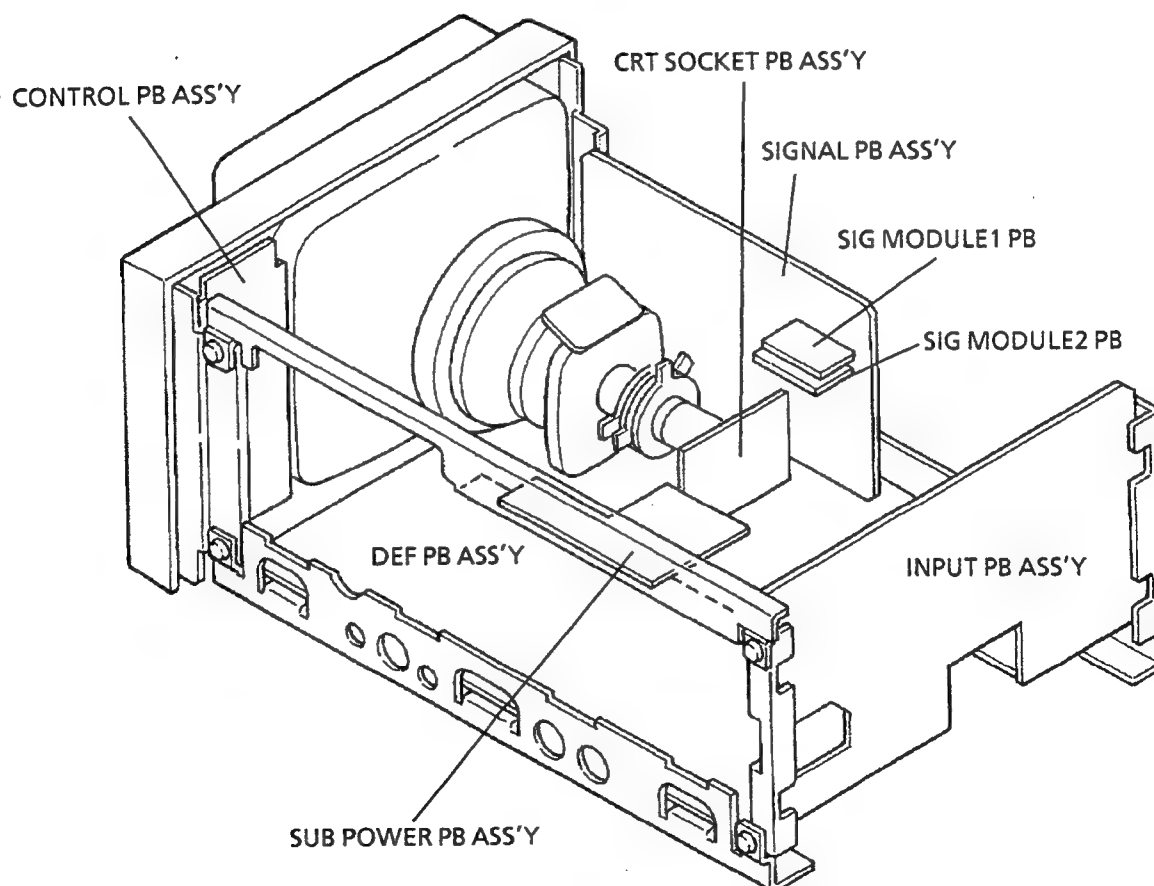
■ Circuit board arrangement

The circuit boards and modules are composed as follows.

- DEF PB ASS'Y(FX-2017A)
 - [Atop DEF PB assembly]
 - SIGNAL PB ASS'Y(FX-1044A)
 - [Atop Signal PB assembly]
 - SIG MODULE1 PB(FX-M001A)
 - SIG MODULE2 PB(FX-M002A)
 - CONTROL PB ASS'Y(FX-4021A)
 - CRT SOCKET PB ASS'Y(FX-3022A)
 - INPUT PB ASS'Y(FX-6029A)
 - SUB POWER PB ASS'Y(FX-9032A)
- Total: 6 boards, 2 modules

■ Factory settings

Contrast	Detent position
INPUT	A
UNDER SCAN	NORMAL
COLOR OFF	OFF
SYNC	INT
PAL/NTSC	NTSC
POWER	OFF
CONTRAST	Detent position
BRIGHT	◇
CHROMA	◇
PHASE	◇
VOLUME	Mechanical center
BATT.CHARGE SW	MONITOR
BATT.SAVE SW	OFF
Termination SW	75Ω

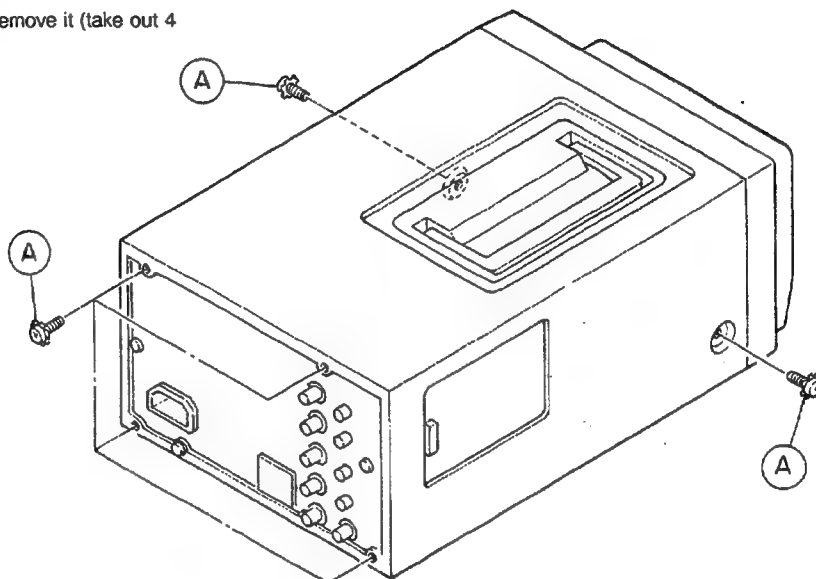


SPECIFIC SERVICE INSTRUCTIONS

■ External parts removal

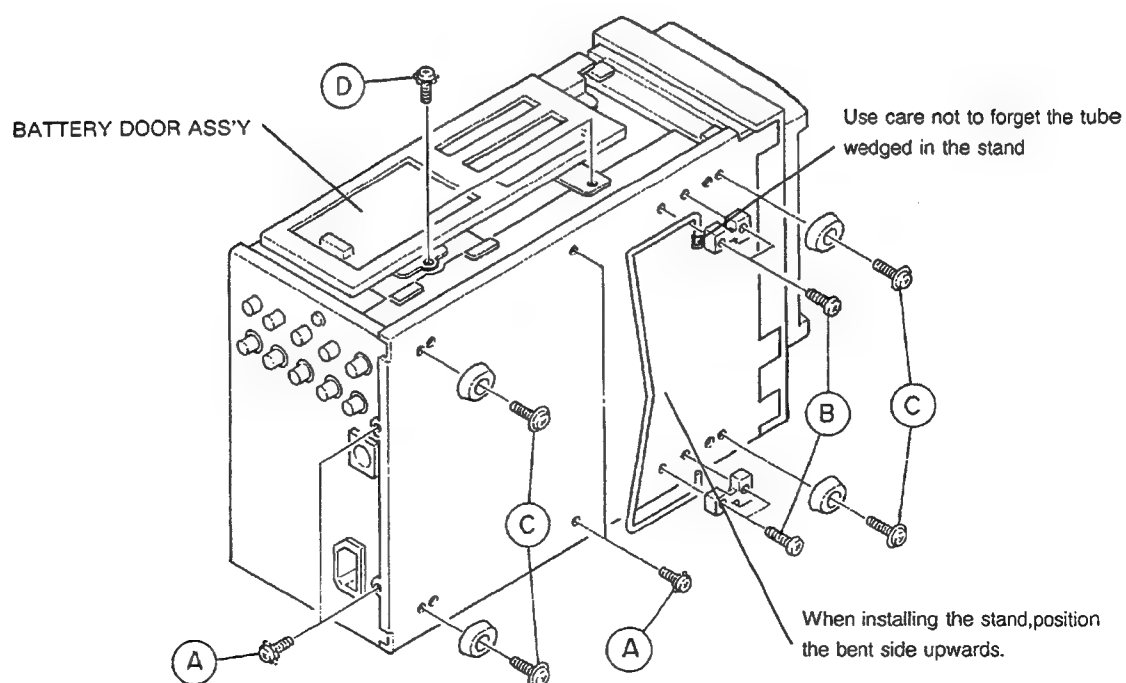
● Top cover

1. Take out 5 screws (A) and remove the top cover.
- ※ If the Rear guard is affixed, first remove it (take out 4 screws).



● Bottom cover

1. Remove the top cover.
2. Take out 4 screws (A) and 4 screws (B). Remove the bottom cover. The stand holder can be removed when the screws (B) are taken out.
3. Take out 4 screws (C) and remove the feet.
4. Take out 2 screws (D) and remove the battery door assembly.



●Rear bracket

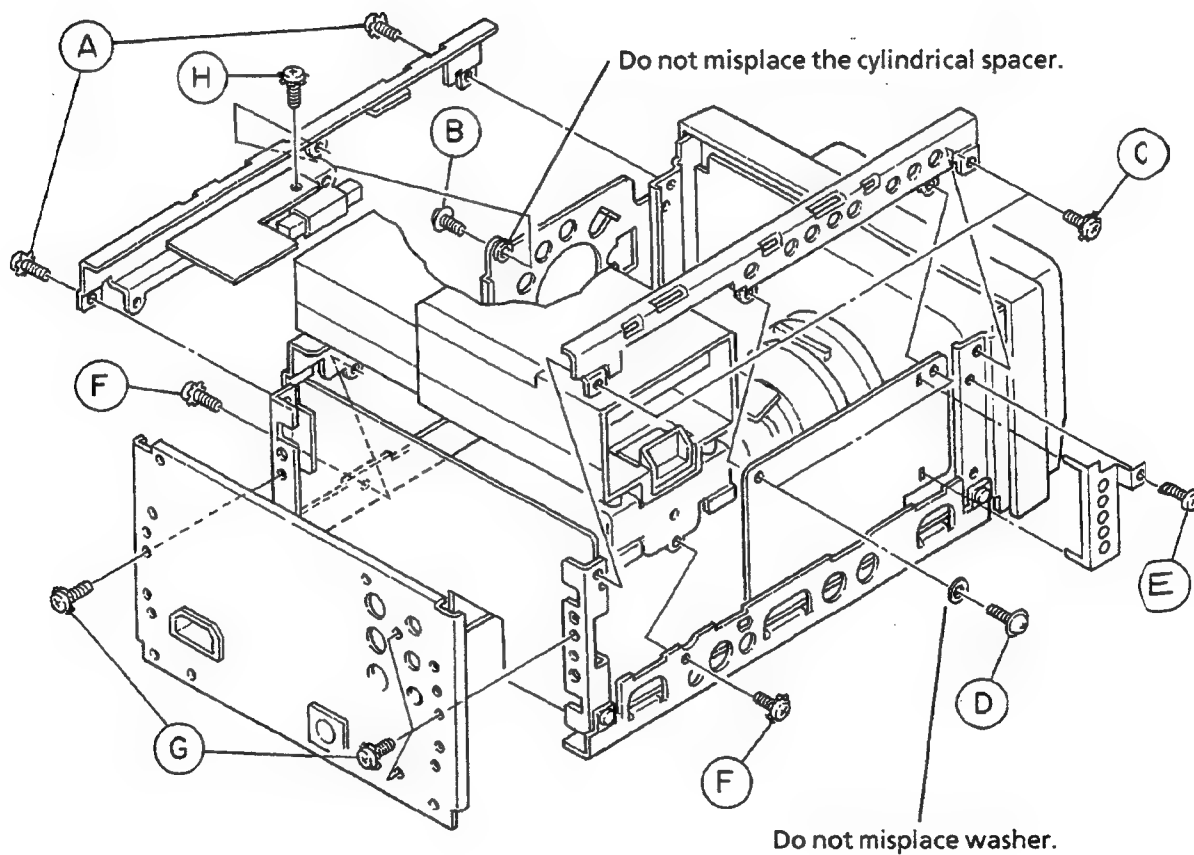
1. Remove the top cover.
2. Take out 2 screws (A) and 1 screw (B).Remove the top beam (left side).
3. Take out 2 screws (C) and 2 screws (D).Remove the top beam (right side).
4. Take out 1 screw (E) and remove the PCB guard.
5. Take out 2 screws (F) and remove the battery box.
6. Remove the bottom cover.
7. Take out 4 screws (G) and remove the rear bracket.

●Sub-power PB assembly

1. Remove the top cover.
2. Take out 1 screw (H).Remove the resistor and sub-power PB assembly.

●Signal PB assembly

1. Remove the top cover,top beam,battery door ass'y and 2 screws (E) of PCB guard.
2. The Signal PB assembly can then be removed.



●Input PB assembly

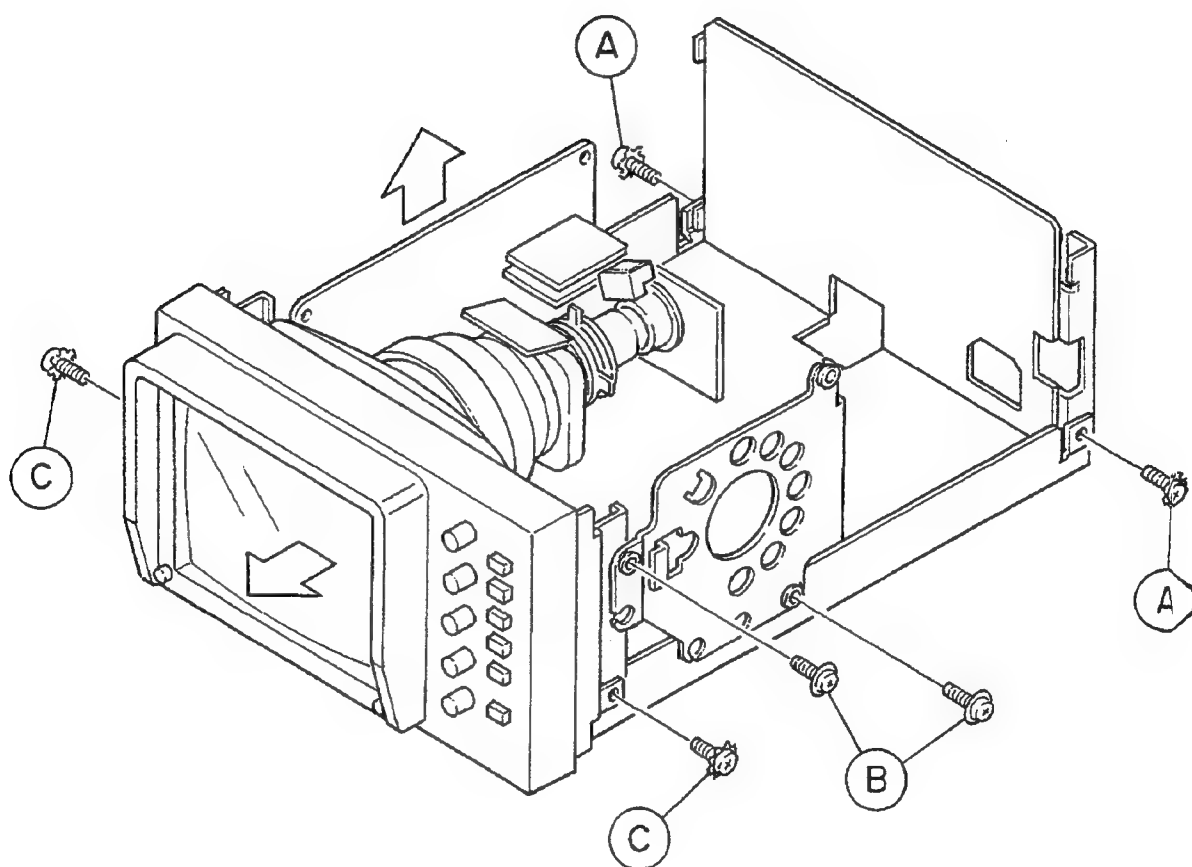
1. Remove the top cover, bottom cover and rear bracket.
2. Take out 2 screws ① and remove the input PB assembly.

●Speaker

1. Remove the top cover and top beams.
 2. Take out 2 screws ② and remove the speaker together with the speaker bracket.
- ※ When installing, use care not to damage the speaker cone.

●Front Panel

1. Remove the top cover, bottom cover and top beams.
2. Take out 2 screws ③ and remove the front panel.

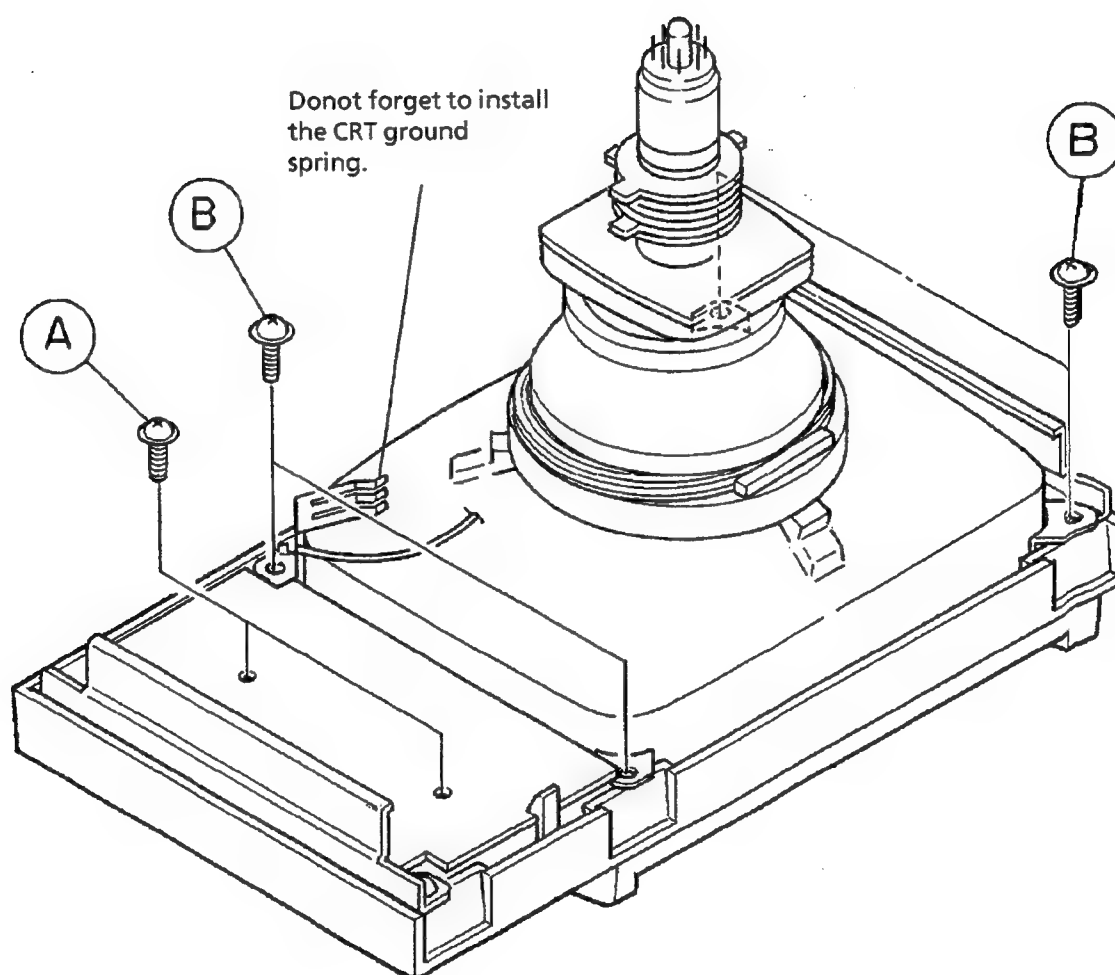


● Control PB assembly

1. Remove the front panel and front bracket.
2. Take out 2 screws ④ and remove the control PB assembly.

● CRT

1. Remove the front panel and front bracket.
 2. Take out 4 screws ⑤ and remove the CRT.
- ※ Be cautious of picture inclination when installing the CRT.



SERVICE ADJUSTMENT

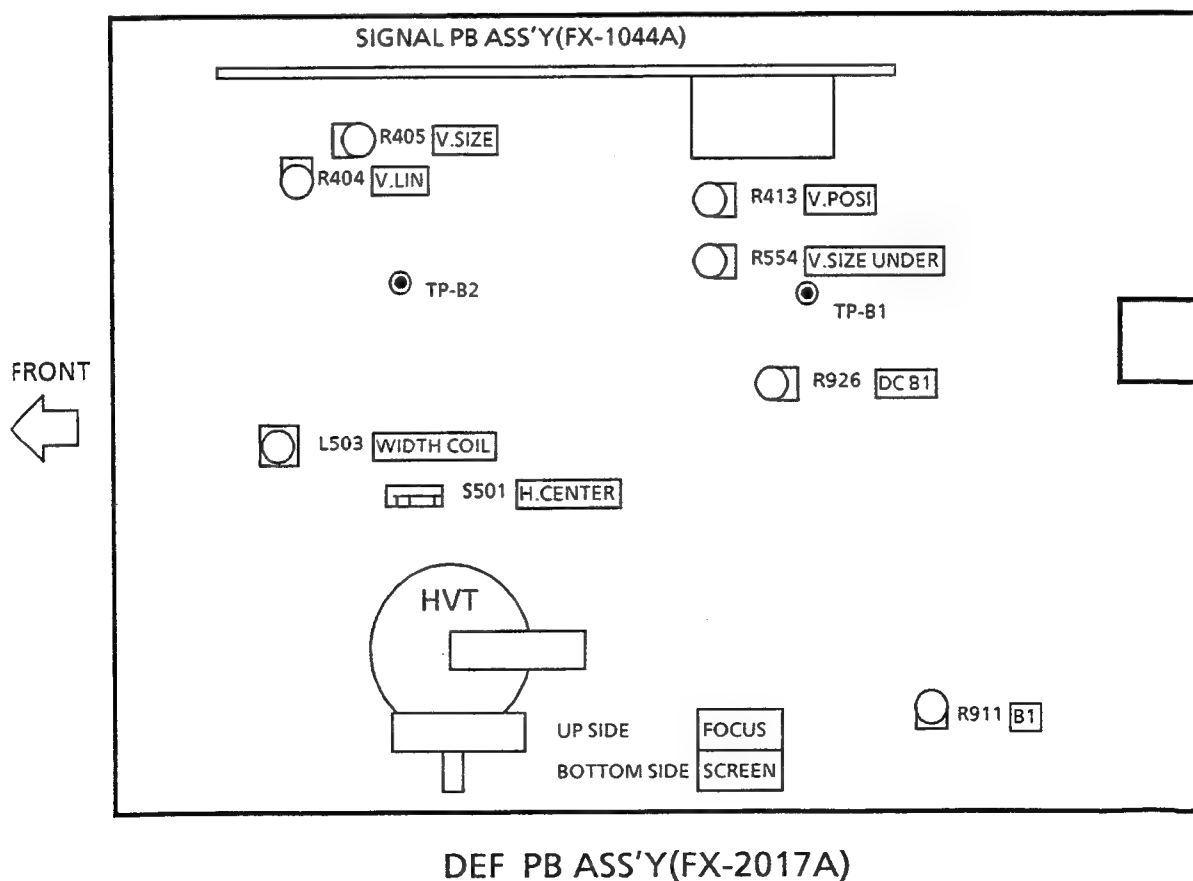
■ Preparation

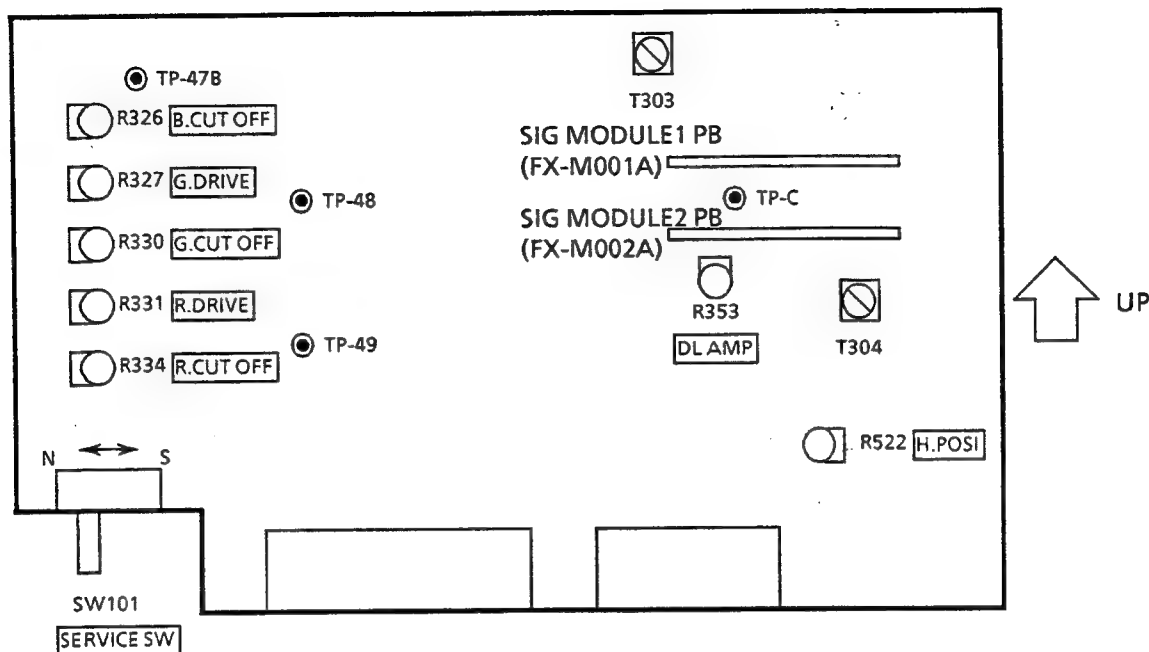
1. Supply power and allow the set and test instruments to warm up and stabilize for at least 30 minutes before proceeding with adjustments.
2. Check that the power source is the correct AC voltage.
3. Use care not to disturb controls and switches other than those indicated in the adjustment procedure.
4. Set controls and switches used by the customer (brightness, tint, hue, vertical hold, etc.) to their factory positions (refer to the list of these settings).

■ Test equipment list

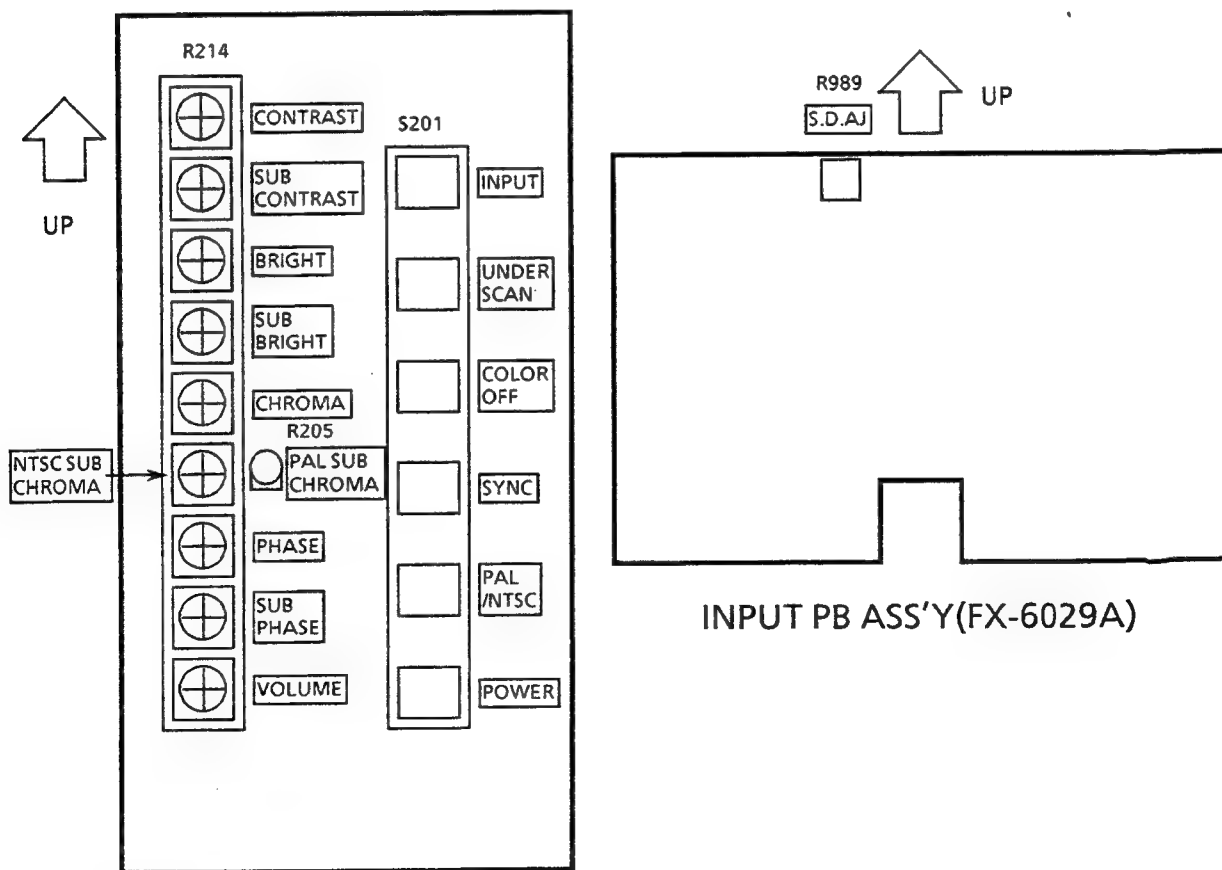
- DC voltmeter (digital voltmeter)
- Oscilloscope
- Signal generator (NTSC/PAL systems)
Color bar (NTSC/PAL)
Split color bar (NTSC)
Crosshatch (NTSC)
White (NTSC)
Black (NTSC)
Mono scope(NTSC)(if available)
- Standard test pattern (NTSC)
- 12 V stabilized power supply(more than 3A)

■ Adjustment locations





SIGNAL PB ASS'Y (FX-1044A)

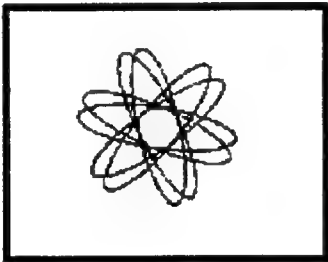
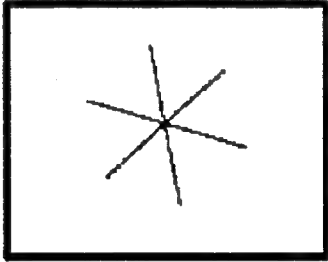


CONTROL PB ASS'Y (FX-4021A)

INPUT PB ASS'Y (FX-6029A)

■ Adjustment procedure

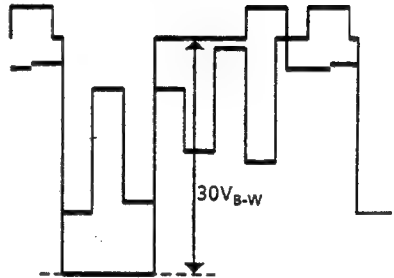
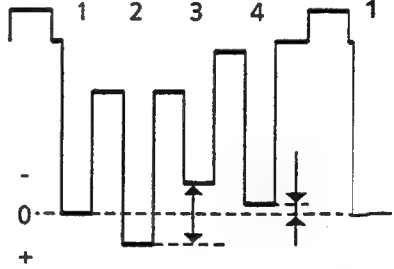
● Signal PB assembly (FX-1044A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	PAL APC	Color bar signal (PAL) Oscilloscope	TP-48 TP-49	T304 R353(DL AMP)	<ol style="list-style-type: none"> 1. Supply a color bar signal input. 2. Connect channel 1 of a dual-trace oscilloscope to TP-48 and channel 2 to TP-49. Set for XY coordinate mode. 3. Connect a 5.6KΩ resistor between IC101 pins 29 and 31. 4. Short both ends of C316. 5. Adjust T304 and R353 (DL AMP) to obtain the waveform shown in Fig.B.
<div style="display: flex; justify-content: center; align-items: center; gap: 20px;">   </div> <div style="display: flex; justify-content: center; align-items: center; gap: 20px;"> (A) (B) </div>					
2.	Burst cleaning coil	Color bar signal (PAL) Oscilloscope	TP-C	T303	<ol style="list-style-type: none"> 1. Supply a color bar signal input. 2. Connect oscilloscope TP-C 3. Adjust T303 for minimum output waveform amplitude.

● DEF PB assembly (FX-2017A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	B1 voltage (AC)	Crosshatch (NTSC) Digital voltmeter	TP-B1	BRIGHT VR SUB BRIGHT VR [CONTROL PB ASS'Y] R911(B1)	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. Set the Bright and Sub Bright VRs to off positions. 3. Adjust R911 (B1) for 25 V \pm 0.1 V at TP-B1. 4. Confirm near absence of voltage fluctuation even when the input signal is changed. 5. Return the Bright and Sub Bright VRs to their previous positions.
2.	B1 voltage (DC)	Crosshatch (NTSC) Digital voltmeter 12 V stabilized power supply (more than 3A)	TP-B1	BRIGHT VR SUB BRIGHT VR [CONTROL PB ASS'Y] R926(DC B1)	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. Set the Bright and Sub Bright VRs to off positions. 3. Adjust R926 (DC B1) for 25 V \pm 0.1 V at TP-B1. 4. Confirm near absence of voltage fluctuation even when the input signal is changed. 5. Return the Bright and Sub Bright VRs to their previous positions.

● Control PB assembly (FX-4021A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	Contrast standard setting	color bar (NTSC) Oscilloscope	TP-47B [SIGNAL PB ASS'Y]	SUB CONTRAST VR	<ol style="list-style-type: none"> 1. Supply a split color bar signal input. 2. Set the Contrast and Bright VRs to their detent positions. 3. Connect oscilloscope to TP-47B. 4. Adjust the Sub Contrast VR to obtain 30 Vp-p from the black to the 100 % white waveform components. 
2.	Sub chroma and sub phase	Color bar (NTSC/PAL) Oscilloscope	TP-47B [SIGNAL PB ASS'Y]	NTSC SUB CHROMA VR SUB PHASE VR R205(PAL SUB CHROMA) PAL/NTSC SWITCH	<ol style="list-style-type: none"> 1. Supply a NTSC color bar signal input. 2. Connect oscilloscope to TP-47B. 3. Adjust the Sub Phase VR to align the 2 and 3 waveform levels. 4. Adjust the NTSC Sub Chroma VR to align the 1 and 4 waveform levels. 5. Set the PAL/NTSC switch to PAL. 6. Supply a PAL color bar signal input. 7. Adjust R205 (PAL Sub Chroma) to align the 1 and 4 waveform levels. 8. Set the PAL/NTSC switch to NTSC. 
3.	Sub Bright	Full black signal (NTSC)		SUB BRIGHT VR	<ol style="list-style-type: none"> 1. Supply a full black signal input. 2. Check that the Contrast and Bright VRs are at their detent positions. 3. Set the Sub Bright VR to just before the position where the picture becomes light (do not set for excessive brightness).

● DEF PB assembly (FX-2017A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	Horizontal gain and centering	Crosshatch (NTSC) (Mono scope)		R522 (H Pos) [SIGNAL PB ASS'Y] L503 (Width Coil) S101 (H Center) Underscan switch [CONTROL PB ASS'Y]	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. Adjust R522 (H Pos) to set the center of the crosshatch to the center of the picture. 3. Set the Underscan switch on and check for picture loss from the raster. 4. If there is loss, adjust S101 (H Center). 5. Set the Underscan switch to off and adjust L503 (Width Coil) for 95 %.
2.	Vertical gain and centering	Crosshatch (NTSC) (Mono scope)		R405 (V Size) R413 (V Pos) R404 (V Lin) R554 (V Size Under) Underscan switch [CONTROL PB ASS'Y]	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. With the Underscan switch off, adjust R405 (V Size) and R413 (V Pos) for 95 %. 3. Adjust R404 (V Lin) so the picture is symmetrical top and bottom. 4. With the Underscan switch on, adjust R554 (V Size Under) for square crosshatch shapes. 5. Operate the Underscan switch on/off and check that adjustment is stable.

● Signal PB assembly (FX-1044A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	Low light white balance	Crosshatch signal (NTSC)		S101 (Service switch) R326 (B Cut Off) R330 (G Cut Off) R334 (R Cut Off) SCREEN VR (bottom of HVT)	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. Set the Service switch (S101) to S. 3. Turn R326 (B Cut Off), R330 (G Cut Off) and R334 (R Cut Off) to where color is not obtained. 4. Turn the Screen VR fully counterclockwise. Then slowly turn it clockwise and note the first color obtained. 5. Except for this color, turn the other color Cut Off VRs to produce white. 6. Set the Service switch (S101) to N.
2.	Highlight white balance	Full white signal (NTSC)		R331 (R Drive) R327 (G Drive) Contrast VR	<ol style="list-style-type: none"> 1. Supply a full white signal input. 2. Adjust R331 (R Drive), R327 (G Drive) and Contrast VRs for optimum white color image.

● DEF PB assembly (FX-2017A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	Focus	Crosshatch signal (NTSC)		Focus VR (top of HVT)	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. Turn the Focus VR to the position for optimum crosshatch focus and absence of moire.

● INPUT PB assembly (FX-6029A)

No.	Item	Test equipment	Test points	Adjustment locations	Adjustment procedure
1.	shut off voltage	Crosshatch (NTSC) Digital voltmeter 12 V stabilized power supply (more than 3A)		R989(S.D.AJ)	<ol style="list-style-type: none"> 1. Supply a crosshatch signal input. 2. Turn R989(S.D.AJ) fully counter-clockwise. 3. Connect a digital voltmeter and stabilized power supply to the battery case + and - terminals. 4. Set the stabilized power supply for 10.6V. 5. Turn R989(S.D.AJ) and stop at the point the picture disappears. 6. Slightly raise the power supply voltage. 7. Cut off, then resupply power. Confirm startup.

PARTS LIST

CAUTION

- The parts marked \triangle are very important for the safety. When replacing these parts, be sure to use specified ones to secure the safety and performance.
- The module circuit board is supplied together with the assembly, but the parts which do not have the drawing in this Parts List, P. W. Board Ass'y and the Parts No. columns of which are filled with lines —, will not be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in (NOTE 2) "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.
When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to (NOTE 2).

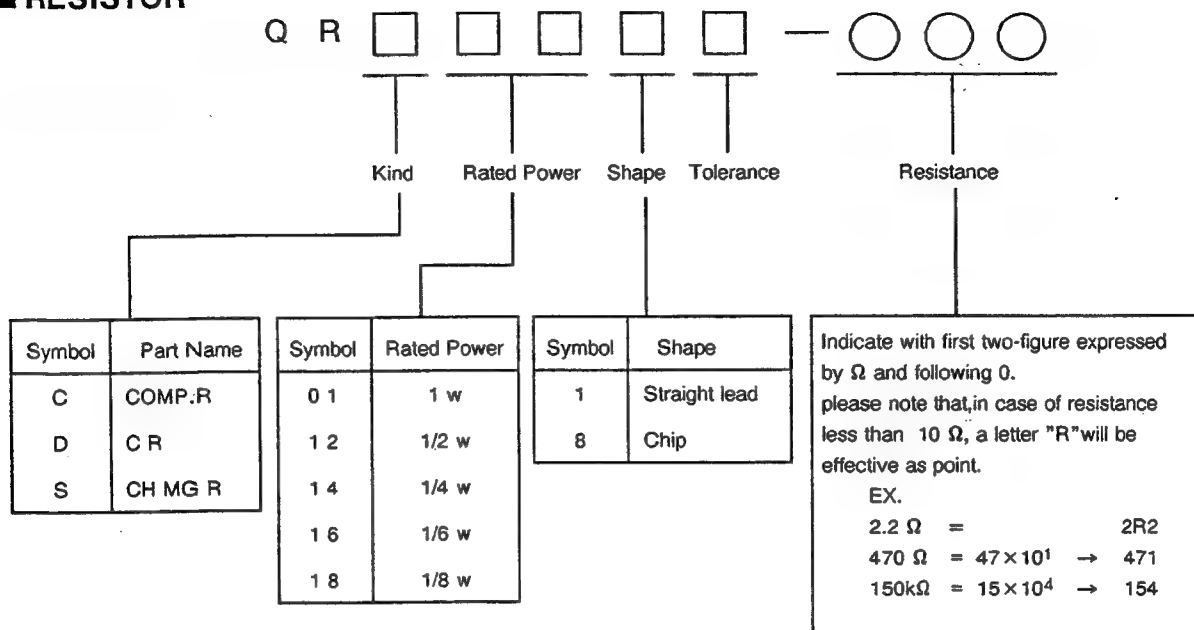
(NOTE 1) ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

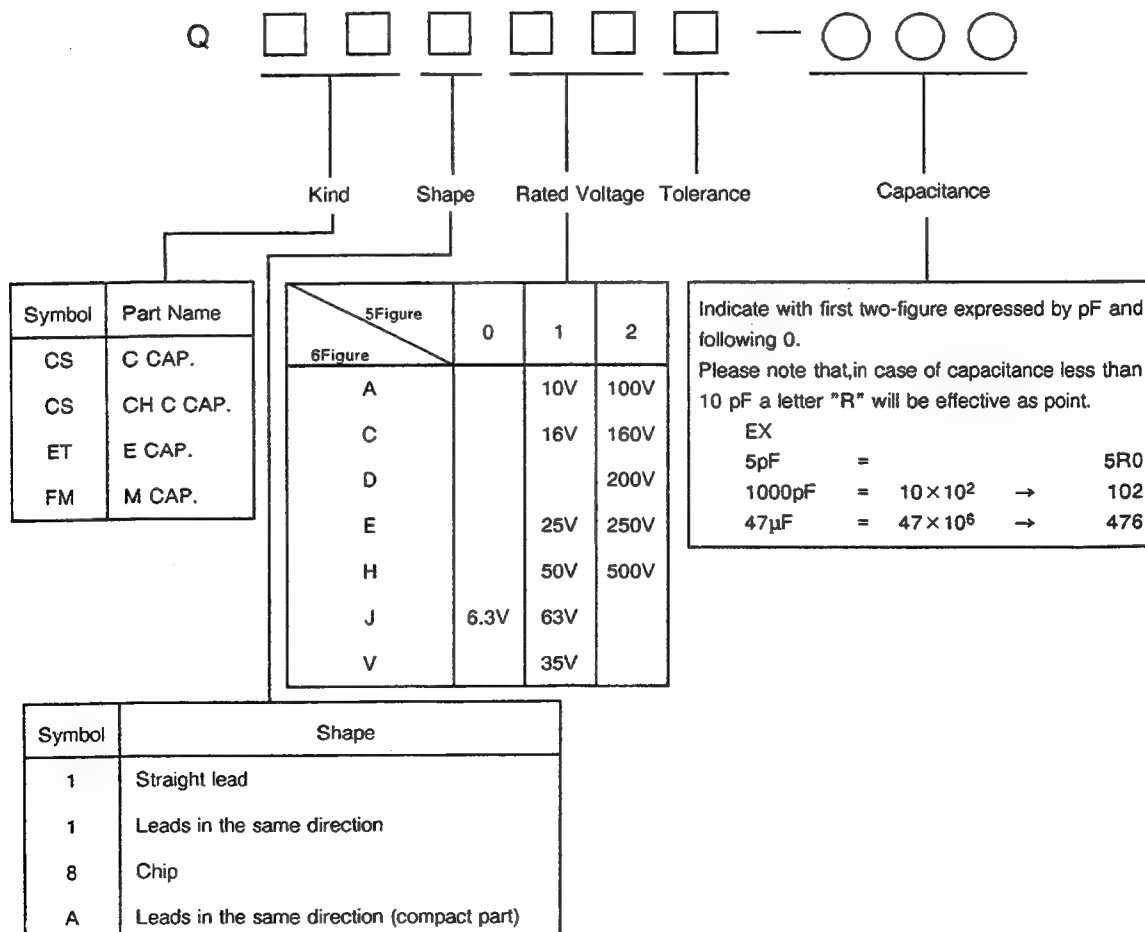
TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% - 10%	+50% - 10%	+80% - 20%	+100% - 0%

(NOTE 2) HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

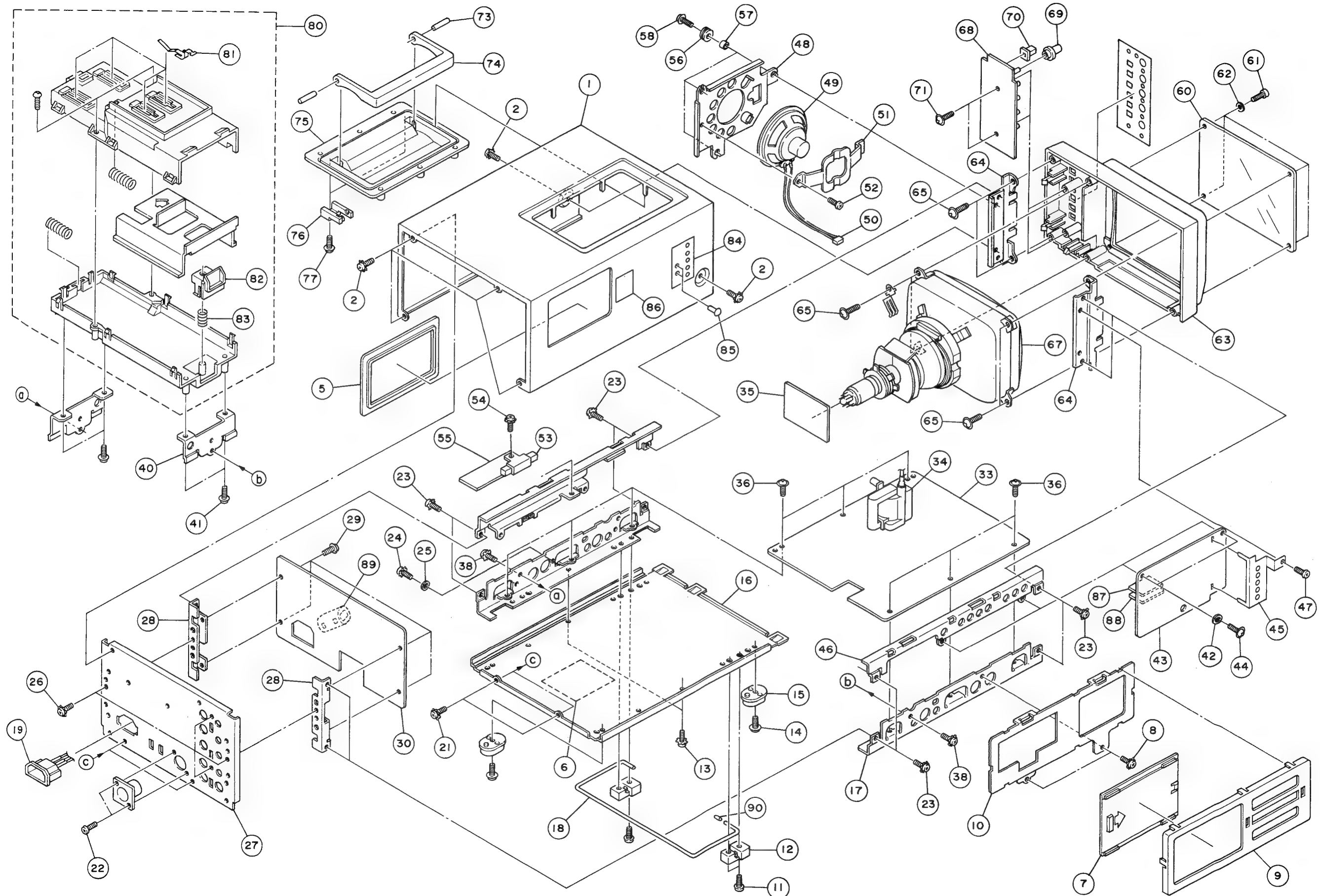
■ RESISTOR



■ CAPACITOR



EXPLODED VIEW



(No.50776) 25

(No.50776) 26

EXPLODED VIEW PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
△ 1	CM12393-002	TOP COVER		
2	CM44286-00F	ASSY SCREW	× 6	
5	CM35817-001	DOOR PANEL		
6	CM35785-001(R)	ROLL R LABEL		
7	CM35734-A01	BATTERY DOOR		
8	CM44286-00A	ASSY SCREW	× 2	
9	CM22629-001	DOOR COVER		
10	CM35673-001	DOOR BASE		
11	SPST4012M	SCREW	× 4	
12	CM47719-A01	STAND HOLDER		
13	CM44286-00F	ASSY SCREW	× 2	
14	GPST4010M	W TAP SCREW	× 4	
15	CM45764-002	FOOT	× 4	
△ 16	CM12392-002	BOTTOM COVER		
17	CM35670-A01	BOTTOM BEAM	× 2	
18	CM35671-001	STAND HOLDER		
△ 19	QMCB004-001	BAC INLET		
21	CM44286-00F	ASSY SCREW	× 2	
22	SPST2606N	TH.TAP.SCREW	× 2	
23	CM44286-00A	ASSY SCREW	× 2	
24	CM44287-00B	ASSY SCREW		
25	CM46603-001	T.LOCK WASHER		
26	CM44286-00F	ASSY SCREW	× 4	
27	CM22692-002B	REAR BKT ASSY		
28	CM47718-001	REAR CONNECT BKT	× 8	
29	GBSG3008Z	TAPPING SCREW	× 4	
△ 30	-----	INPUT PWB ASSY	FX-6029A	
△ 33	-----	DEF PWB ASSY	FX-2017A	
△ 34	CE42334-001	H.V.TRANSF.	T902	
△ 35	-----	CRT SOCKET PWB	FX-3022A	
36	GBSG3008Z	TAPPING SCREW	× 6	
38	CM44286-00A	ASSY SCREW	× 2	
40	CM47723-001	BATTERY BKT	× 2	
41	GBSF3010Z	TAPPING SCREW	× 4	
42	CM40574-011	WASHER		
△ 43	-----	SIGNAL PWB ASSY	FX-1044A	
44	GBSG3008Z	TAPPING SCREW	× 2	
45	CM47897-001	PCB GUARD		
46	CM35672-A01	TOP BEAM	× 2	
47	GBSG3008Z	TAPPING SCREW		
48	CM35844-001	SP BKT		
△ 49	77-52	SPEAKER		
50	CHGS0003-0E-G	SPEAKER WIRE ASSY		
51	CM43388-001	SPEAKER HOLDER		
52	SDST3006Z	SCREW		
53	QRF108K-270	UNF R	27 Ω 10W K	
54	CM44286-00A	ASSY SCREW		
△ 55	-----	SUB POWER PWB	FX-9032A	
56	CM47873-001	RUBBER BUSH	× 3	
57	CM47900-001	SPACER	× 3	
58	GPST3008Z	W TH.TAP SCREW	× 3	
△ 60	CM47840-001	PROTECT PANEL		
61	BYS3010M	BOLT	× 4	
62	Q03093-826	WASHER	× 4	
△ 63	CM12395-00A-MO	FRONT PANEL ASSY		
64	CM47724-001	PANEL BKT	× 2	
65	GBSF4012Z	TAP SCREW	× 6	
△ 67	A14JJD68X03	ITC TUBE	V01	
△ 68	-----	CONTROL PWB ASSY	FX-4021A	
69	CM47853-001	VOLUME KNOB	× 5	
70	CM46044-001	PUSH KNOB	× 6	
71	GBSF3010Z	TAPPING SCREW	× 2	
73	CM47847-001	PIN	× 2	
△ 74	CM35749-001	HANDLE		
△ 75	CM12420-001	HANDLE BASE		

△ Ref.No.	Part No.	Part Name	Description	Local
76	CM40835-001	PIN HOLDER	× 2	
77	SBSF3010Z	TAPPING SCREW		
△ 80	CM12394-00A	BATTERY CASE ASSY		
81	CM47728-001	BATTERY TERMINAL	× 4	
82	CM35735-A01	EJECT KNOB		
83	CM46757-003	SPRING		
84	CM47898-001	GUARD PLATE		
85	CM47902-00B	RIVET ASSY	× 2	
△ 86	CM47872-001	BATTERY CAUTION		
△ 87	FX-M001A	SIG MODULE 1		
△ 88	FX-M002A	SIG MODULE 2		
89	CE41355-00B	CORE		
90	CM47915-001	TUBE		

PRINTED WIRING BOARD PARTS LIST SIGNAL PW BOARD ASS'Y(FX-1044A)

Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R1326	QVPC802-502H	V R	5k Ω B B.CUT OFF	
R1327	QVPC802-201H	V R	200 Ω B G.DRIVE	
R1330	QVPC802-502H	V R	5k Ω B G.CUT OFF	
R1331	QVPC802-201H	V R	200 Ω B R.DRIVE	
R1334	QVPC802-502H	V R	5k Ω B R.CUT OFF	
R1353	QVPC611-102HZ	V R	1k Ω B DL AMP	
R1522	QVPC611-503HZ	V R	50k Ω B H.POSI	
RESISTOR				
R1335-37	QRG019J-123S	OM R	12k Ω 1W J	
CAPACITOR				
C1106	QEN61HM-474Z	BP E CAP.	0.47 μ F 50V M	
C1312	QFV71HJ-474MZ	TF CAP.	0.47 μ F 50V J	
C1313	QEN61HM-474Z	BP E CAP.	0.47 μ F 50V M	
C1314	QFV71HJ-104MZ	TF CAP.	0.1 μ F 50V J	
C1315	QFV71HJ-334MZ	TF CAP.	0.33 μ F 50V J	
C1316	QEN61HM-475Z	BP E CAP.	4.7 μ F 50V M	
C1317	QFLC1HJ-392MZ	M CAP.	3900 p F 50V J	
C1502	QFLC1HJ-332MZ	M CAP.	3300 p F 50V J	
C1508	QFLC1HJ-822MZ	M CAP.	8200 p F 50V J	
C1509	QFLC1HJ-103MZ	MYLAR CAP.	0.01 μ F	
TRANSFORMER				
T1303	CELT016-006	CLOCK TRANSF.		
T1304	CE40396-A01	DL P.TRANSF.		
COIL				
L1301-03	CELP026-221Z	PEAKING COIL	220 μ H	
L1304-06	CELP026-151Z	PEAKING COIL	150 μ H	
L1307	CELP026-8R2Z	PEAKING COIL	8.2 μ H	
DIODE				
D1109-10	1SS133-T2	SI.DIODE		
D1303-05	1SS133-T2	SI.DIODE		
D1501	RD6.8ES(B2)-T2	ZENER DIODE		
D1503	RD5.1ES(B3)-T2	ZENER DIODE		
DL1101	CE40714-001	DELAY LINE		
TRANSISTOR				
Q1103	2SA933S(QR)-T	SI.TRANSISTOR		
Q1105	2SC1740S(QR)-T	SI.TRANSISTOR		
Q1302	DTC144WS-T	DIDI.TRANSISTOR		
Q1303-05	2SC3187-T	SI.TRANSISTOR		
Q1401	DTC144WS-T	DIDI.TRANSISTOR		
Q1501	DTC144WS-T	DIDI.TRANSISTOR		
I C				
IC1101	M51413ASP	I.C(MONO-ANA)		
OTHERS				
DL1301	CE41305-001	DELAY LINE(1H)		
SW1101	QSS1F22-C09	SLIDE SWITCH	SERVICE SW	
X1301	CE41092-00A	CRYSTAL		
X1302	CE41115-001	CRYSTAL		
X1501	CSB500F9	CER.RESONATOR		

DEF PW BOARD ASS'Y(FX-2017A)

△ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R2404	QVPC611-102HZ	V R	1kΩ B V.LIN	
R2405	QVPC611-102HZ	V R	1kΩ B V.SIZE	
R2413	QVPC611-203HZ	V R	20kΩ B V.POSI	
R2554	QVPC611-502HZ	V R	5kΩ B V.SIZE UNDER	
R2911	QVPC623-102HZ	TRIM R	1kΩ B B1	
R2926	QVPC611-102HZ	V R	1kΩ B DC B1	
RESISTOR				
R1605	QRG029J-330A	OM R	33 Ω 2W	J
R2406	QRD123J-4R7SX	C R	4.7 Ω 1/2W	J
R2410	QRG02CJ-121AX	OM R	120 Ω 2W	J
R2414	QRD123J-121SX	C R	120 Ω 1/2W	J
R2532	QRG029J-101A	OM R	100 Ω 2W	J
R2534	QRG029J-121	OM R	120 Ω 2W	J
R2535	QRD123J-391SX	C R	390 Ω 1/2W	J
R2539	QRG029J-221A	OM R	220 Ω 2W	J
△ R2544	QRZ0054-2R2M	F R	2.2 Ω 1/4W	J
△ R2545	QRZ0054-2R2M	F R	2.2 Ω 1/4W	J
△ R2546	QRZ0054-2R2M	F R	2.2 Ω 1/4W	J
R2553	QRG029J-102A	OM R	1kΩ 2W	J
△ R2556	QRZ0054-2R2M	F R	2.2 Ω 1/4W	J
R2901	QRC121K-105Z	COMP.R	1MΩ 1/2W	K
R2902	QRD123J-152SX	C R	1.5kΩ 1/2W	J
R2903	QRF074K-3R9	UNF R	3.9 Ω 7W	K
R2904	QRZ0069-472	UNF R	4.7kΩ 5W	K
R2908	QRG039J-473A	OM R	47kΩ 3W	J
R2909	QRM055K-R22	MP R	0.22 Ω 5W	K
R2912	QRD123J-392SX	C R	3.9kΩ 1/2W	J
R2913	QRD123J-222SX	C R	2.2kΩ 1/2W	J
R2916	QRD123J-330SX	C R	33 Ω 1/2W	J
R2943	QRG02CJ-152AX	OM R	1.5kΩ 2W	J
CAPACITOR				
C1604-05	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V	J
△ C1607	QCF31HP-222AZ	CH C CAP.	2200 pF 50V	P
C2408	QEHC1HM-107MZ	E CAP.	100 μF 50V	M
C2409	QFLC1HJ-103MZ	M CAP.	0.01 μF 50V	J
C2411	QEHC0JM-108MZ	E CAP.	1000 μF 6.3V	M
C2520	QFLC1HJ-472MZ	M CAP.	4700 pF 50V	J
△ C2521	QFP42JJ-682M	PP CAP.	6800 pF 630V	J
C2522	QFP32GJ-563M	PP CAP.	0.056 μF 400V	J
C2523	QEHC1HM-105MZ	E CAP.	1 μF 50V	M
C2525	QEHC2CM-106MZ	E CAP.	10 μF 160V	M
C2526	QEHC2CM-336MZ	E CAP.	33 μF 160V	M
C2527	QFLC1HJ-224MZ	M CAP.	0.22 μF 50V	J
C2528	QFK62AJ-105M	MM CAP.	1 μF 100V	J
C2529	QEHC1HM-106MZ	E CAP.	10 μF 50V	M
C2530	QEHC1HM-226MZ	E CAP.	22 μF 50V	M
C2531	QEM51CM-108M	E CAP.	1000 μF 16V	M
C2532	QFK52AJ-475M	MM CAP.	4.7 μF 100V	J
C2534	QFLC1HJ-392MZ	M CAP.	3900 pF 50V	J
C2610	QFLC1HJ-103MZ	M CAP.	0.01 μF 50V	J
△ C2901	QCZ9033-472A	C CAP.	4700 pFAC400V	M
△ C2902	QCZ9058-222MZ	C CAP.	2200 pF	
△ C2903	QCZ9058-102MZ	C CAP.	1000 pF	
△ C2904	QCZ9058-222MZ	C CAP.	2200 pF	
△ C2905	QFZ9036-224M	MF CAP.	0.22 μFAC250V	M
△ C2906	QFZ9036-224M	MF CAP.	0.22 μFAC250V	M
C2907	QEZ0084-227M	E CAP.	220 μF 400V	M
C2910	QEHC1EM-227MZ	E CAP.	220 μF 25V	M
C2911	QEHC1HM-227MZ	E CAP.	220 μF 50V	M
C2912	QEHC1VM-108MZ	E CAP.	1000 μF 35V	M
C2915	QEHC1VM-108MZ	E CAP.	1000 μF 35V	M
C2916	QFLC1HK-222MZ	M CAP.	2200 pF 50V	K
C2918	QFLC1HK-152MZ	M CAP.	1500 pF 50V	K
C2920	QFLC1HJ-104MZ	M CAP.	0.1 μF 50V	J

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C2921	QEN61HM-475Z	BP E CAP.	4.7 μ F 50V	M
C2923	QFLC1HJ-683MZ	M CAP.	0.068 μ F 50V	J
C2925	QFLC1HJ-224MZ	M CAP.	0.22 μ F 50V	J
C2928	QEHC1VM-477MZ	E CAP.	470 μ F 35V	M
C2929	QFLC1HJ-104MZ	M CAP.	0.1 μ F 50V	J
△ C2930	QCZ9033-472A	C CAP.	4700 p FAC400V	K
C2931	QEHC1VM-108MZ	E CAP.	1000 μ F 35V	M
C2932	QFV71HJ-104MZ	TF CAP.	0.1 μ F 50V	J
C2933	QFLC1HJ-222MZ	M CAP.	2200 p F 50V	J
C2950	QEH81VM-108M	E CAP.	1000 μ F 35V	M
C2951	QEHC1CM-108MZ	E CAP.	1000 μ F 16V	M
C2952	QFLC1HJ-224MZ	M CAP.	0.22 μ F 50V	J
TRANSFORMER				
△ T2501	A76568-MA	H.DRIVE TRANSF.		
T2502	CE42394-001	SIDE PIN TRANS		
△ T2901	CE42332-001	SWITCH.TRANSF.		
COIL				
L2502	CELC047-300	CHOKE COIL	30 μ H	
L2503	CE41197-00E	WIDTH COIL		
L2504	CELL008-001	LINEARITY COIL		
L2505	CJ30030-056	HEATER CHOKE		
L2901	CE30001-420	HEATER CHOKE	42 μ H	
L2902	CELC039-181	CHOKE COIL	180 μ H	
L2903	CE40037-1R0	CHOKE COIL		
DIODE				
D2401-02	1SR35-400A-HJ	SI.DIODE		
D2505-10	1SR124-400A-HJ	SI.DIODE		
D2511	1N4003-T3	SI.DIODE		
D2512	1SR35-400A-HJ	SI.DIODE		
D2513	1N4003-T2	SI.DIODE		
D2514	1SS133-T2	SI.DIODE		
D2515	1SR124-400A-HJ	SI.DIODE		
D2516-17	1SS133-T2	SI.DIODE		
D2519	RD11ES(B3)-T2	ZENER DIODE		
D2520	1SS133-T2	SI.DIODE		
D2901	LB-156-C1	BRIDGE DIODE		
D2902	RD13ES(B3)-T2	ZENER DIODE		
D2903-04	1SS81-T5	SI.DIODE		
D2905	RG2A-LFB1	SI.DIODE		
D2906	EG1Z-T3	SI.DIODE		
D2907	FML-G12S	SI.DIODE		
D2908-09	1SS133-T2	SI.DIODE		
D2910	RD20ES(B3)-T2	ZENER DIODE		
D2911	1SS133-T2	SI.DIODE		
D2912	RD6.2ES(B2)-T2	ZENER DIODE		
D2913	RD20ES(B3)-T2	ZENER DIODE		
D2914	1SS81-T5	SI.DIODE		
D2915-16	1SS133-T2	SI.DIODE		
D2917	FMB-24L	SHOTKEY DIODE		
D2918	RD8.2ES(B2)-T2	ZENER DIODE		
D2919	RD16E(B3)-T2	ZENER DIODE		
D2920	EG1Z	SI.DIODE		
TRANSISTOR				
Q2501	2SC1627A(Y)-T	SI.TRANSISTOR		
Q2502	2SC4478-YA	POWER TRANSISTOR		
Q2503	2SK1895-YA	POWER MOS FET		
Q2504	2SC1472K(AB)	SI.TRANSISTOR		
Q2505	2SC3390(C)-T	SI.TRANSISTOR		
Q2506	2SC2482(C1)-T	SI.TRANSISTOR		
Q2901	2SD1409	SI.TRANSISTOR		
Q2902	2SK1118	POWER MOS FET		
Q2903-04	2SC1959(Y)-T	SI.TRANSISTOR		

△ Symbol No.	Part No.	Part Name	Description	Local
T R A N S I S T O R				
Q2905	2SA562TM(Y)-T	SI.TRANSISTOR		
Q2906	2SK1895-YA	POWER MOS FET		
Q2907	2SC1959(Y)-T	SI.TRANSISTOR		
Q2908	2SC2235(OY)	SI.TRANSISTOR		
Q2909	2SJ189	F.E.T.		
Q2920	2SC3327(AB)-T	SI TRANSISTOR		
I C				
IC2401	LA7830	I.C(MONO-ANA)		
IC2601	AN5265	I.C.		
IC2901	MB3769AP	I.C(MONO-ANA)		
IC2902	UPC4559C	I.C(MONO-ANA)		
IC2903	AN78L05-Y	I.C.		
IC2904	LM2940CT-12	I.C(MONO-ANA)		
O T H E R S				
△ F2901	QMF51E2-1R0S	FUSE	1.0A	
△ LF2901	CE41094-00A	LINE FILTER		
△ PC2901	CNY17F-C1	I.C(PH.COUPLER)		
S2501	QSL4A13-C03Z	LEVER SWITCH	H.CENTER	
VA2901	ERZ-C10DK621U	ZINC N RESISTOR		

CRT SOCKET BOARD ASS'Y(FX-3022A)

△ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C3335	QFH63BK-223M	MM CAP.	0.022 μ F 1250V	K
OTHERS				
△	CE40541-00A	CRT SOCKET		
△	CE40541-001	SOCKET COVER		

CONTROL PW BOARD ASS'Y(FX-4021A)

△ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R4205	QVAZ010-C003A	V R	NTSC SUB CHROMA etc	
R4214	QVPC611-503HZ	V R	50k Ω B CONTRAST, BRIGHT etc	
RESISTOR				
R4202	QRD161J-101Y	C R	100 Ω 1/6W	J
COIL				
L4201-02	CELP026-5R6Z	PEAKING COIL	5.6 μ H	
DIODE				
D4201-03	SML1216W	L.E.D.		
D4204-07	1SS133-T2	SI.DIODE		
TRANSISTOR				
Q4201-02	DTC124ES-T	DIGI. TRANSISTOR		
Q4203	2SA562TM(Y)-T	SI. TRANSISTOR		
OTHERS				
J4201	QMS3008-C01	3.5 JACK		
SW4201	QSTL635-C01	PUSH SWITCH	INPUT, UNDER SCAN etc	

INPUT PW BOARD ASS'Y(FX-6029A)

△ Symbol No.	Part No.	Part Name	Description	Local
VARIABLE RESISTOR				
R6989	QVPC623-203HZ	TRIM RESISTOR	22k Ω B S.D.AJ	
CAPACITOR				
C6120-22	QEKCIHM-335GMZ	E CAP.	3.3 μ F 50V	M
C6128	QFV71HJ-104MZ	TF CAP.	0.1 μ F 50V	J
C6129	QEKCI1CM-107MZ	E CAP.	100 μ F 16V	M
C6612-13	QEKCIHM-105GMZ	E CAP.	1 μ F 50V	M
C6618	QFV71HJ-104MZ	TF CAP.	0.1 μ F 50V	J
C6619	QEKCI1CM-107MZ	E CAP.	100 μ F 16V	M
C6935	QEKCIHM-105GMZ	E CAP.	1 μ F 50V	M
C6936	QFV71HJ-104MZ	TF CAP.	0.1 μ F 50V	J
C6937	QEP61HM-224GMZ	BP E CAP.	0.22 μ F 50V	M
C6938	QEKCI1EM-106GMZ	E CAP.	10 μ F 25V	M
C6939	QEHCI1CM-107MZ	E CAP.	100 μ F 16V	M
DIODE				
D6110-16	1SS133-T2	SI.DIODE		
D6909	1N4003-T3	SI.DIODE		
D6910	RD13ES(B3)-T2	ZENER DIODE		
D6925-28	1SS133-T2	SI.DIODE		
D6929-30	RD5.1ES(B3)-T2	ZENER DIODE		
D6931	1N4003-T3	SI.DIODE		
D6932-33	1SS133-T2	SI.DIODE		
D6934	RD18ES(B2)-T2	ZENER DIODE		

△ Symbol No.	Part No.	Part Name	Description	Local
D I O D E				
D6935-36	1SS133-T2	SI.DIODE		
D6940	RD3.6ES(B1)-T2	ZENER DIODE		
D6941-44	1SS133-T2	SI.DIODE		
D6946	RD12ES(B3)-T2	ZENER DIODE		
D6947	1SS133-T2	SI.DIODE		
T R A N S I S T O R				
Q2923	2SA562TM(Y)-T	SI.TRANSISTOR		
Q6104-06	2SC1740S(QR)-T	SI.TRANSISTOR		
Q6107-08	DTC144WS-T	DIDI.TRANSISTOR		
Q6109-11	2SC1740S(QR)-T	SI.TRANSISTOR		
Q6601-02	2SC1740S(R)-T	SI.TRANSISTOR		
Q6603	DTC144WS-T	DIDI.TRANSISTOR		
Q6908	DTC144ES-T	DIGI TRANSISTOR		
Q6910	2SJ189	F.E.T.		
Q6911	2SC1959(Y)-T	SI.TRANSISTOR		
Q6912	2SA562TM(Y)-T	SI.TRANSISTOR		
Q6913	DTC114ES-T	DIGI.TRANSISTOR		
Q6914-15	2SA562TM(Y)-T	SI.TRANSISTOR		
Q6916-18	2SC1959(Y)-T	SI.TRANSISTOR		
Q6920	2SJ189	F.E.T.		
Q6922	2SA562TM(Y)-T	SI.TRANSISTOR		
I C				
IC6102	TC4066BP	I.C(DIGI-MOS)		
IC6602	TC4066BP	I.C(DIGI-MOS)		
IC6904	UPC358C	I.C(MONO-ANA)		
IC6906	UPC358C	I.C(MONO-ANA)		
O T H E R S				
△ F6902	QMF51E2-4R0S	FUSE	4.0A	
S6101	QSS4C22-C02	SLIDE SWITCH	TERMINATION SW	
S6102-03	QSS4C22-C02	SLIDE SWITCH	"	
SW6902	QSS4C22-C02	SLIDE SWITCH	BATTERY CHARGE	
SW6903	QSS4C22-C02	SLIDE SWITCH	BATTERY SAVE	

SUB POWER PW BOARD ASS'Y(FX-9032A)

△ Symbol No.	Part No.	Part Name	Description	Local
D I O D E				
D9960-65	RK44-LFJ8	S B DIODE		



JVC

VICTOR COMPANY OF JAPAN, LIMITED

IMAGING SYSTEMS DIVISION 1106 Iwai-city, Ibaraki-prefecture, 306-06, Japan




Printed in Japan
9304 V.P.
H.N.S.H.S

TM-600PN-E STANDARD CIRCUIT DIAGRAM

NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2. SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1) Input signal : PAL Color bar signal
 - (2) Setting positions
of each knob/button
and variable resistor : Original setting position
when shipped
 - (3) Internal resistance of tester : DC 20k Ω /V
 - (4) Oscilloscope sweeping time
: H \Rightarrow 20 μ S/div
: V \Rightarrow 5mS/div
: Others \Rightarrow Sweeping time is
specified
 - (5) Voltage values : All DC voltage values
- * Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

(1) Resistors

• Resistance value

- No unit : [Ω]
- K : [K Ω]
- M : [M Ω]

• Rated allowable power

- No indication : 1/6[W]
- Others : As specified

• Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammmable resisfor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2) Capacitors

• Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

• Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage[V]
- AC indicated : AC withstand voltage[V]

* Electrolytic Capacitors

- 47/50 [Example]: Capacitance value [μ F]/withstand voltage[V]

• Type

- No indication : Ceramic capacitor
- MY : Mylar capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3) Coils



- No unit : [μ H]
- Others : As specified

(4) Power Supply




-  : 12V
-  : 25V

* Respective voltage values are indicated.





(5) Test Point

-  : Test point
-  : Only test point display



(6) Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7) Ground symbol

-  : LIVE side ground
-  : NEUTRAL side ground
-  : EARTH ground
-  : DIGITAL ground

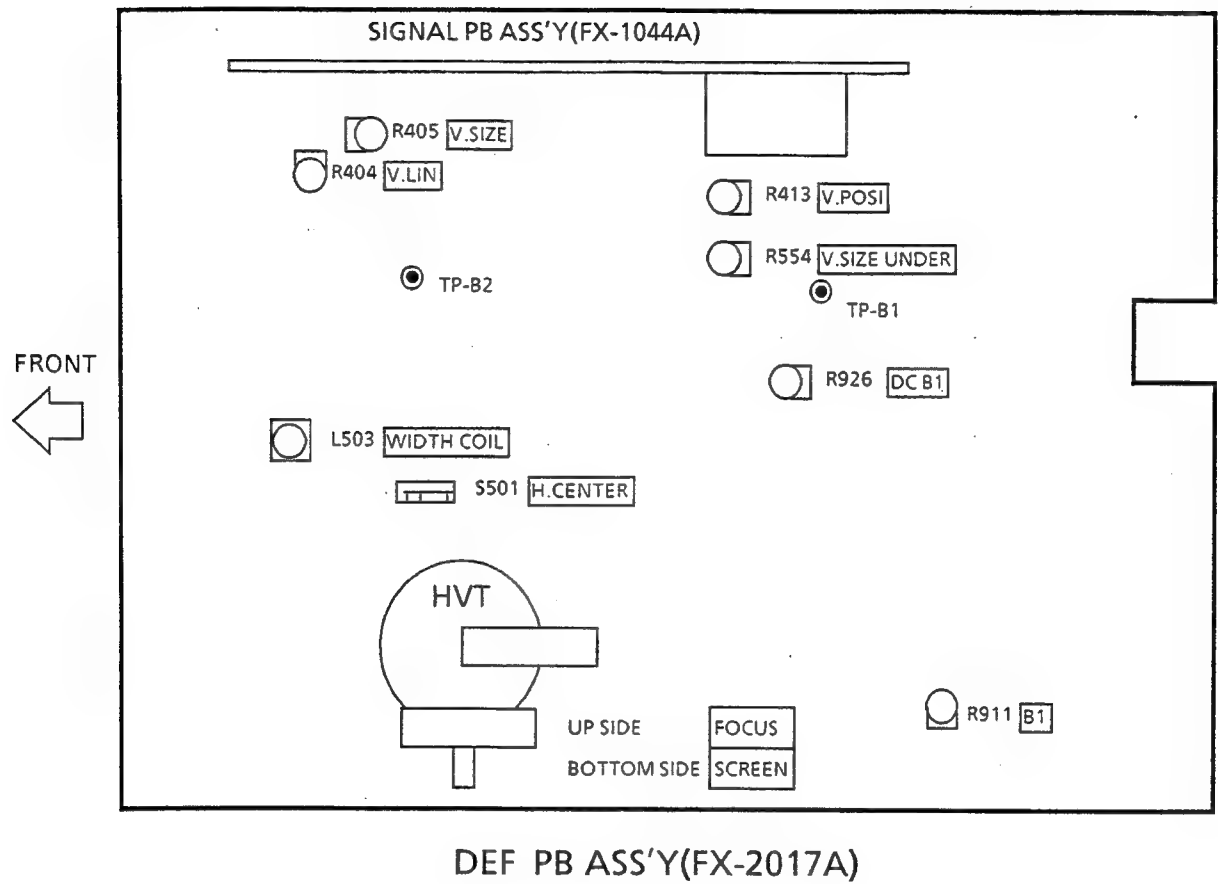
5. NOTE FOR REPAIRING SERVICE

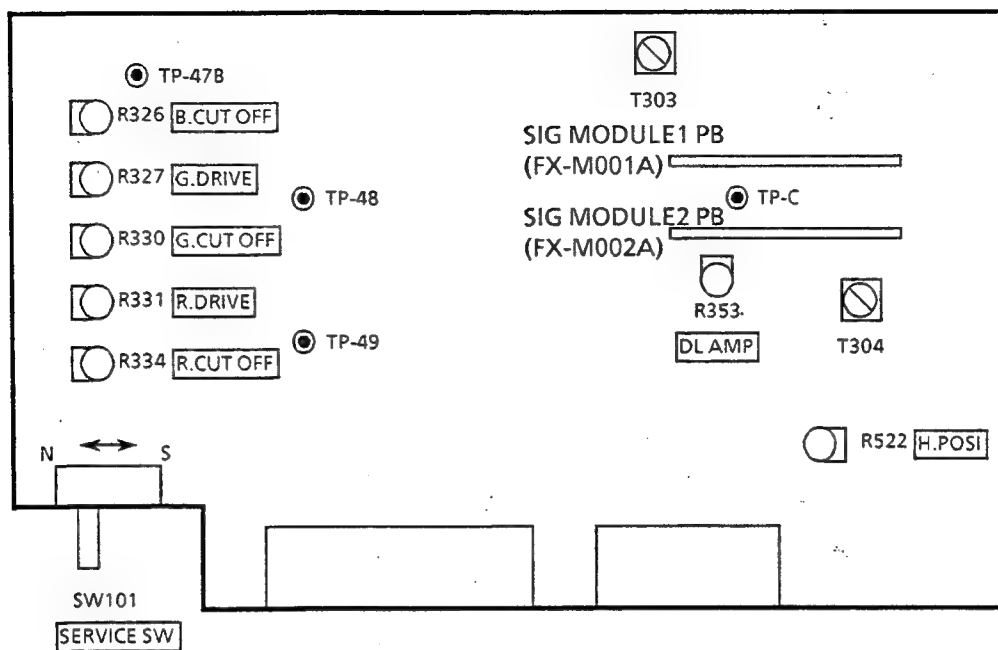
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE (primary : ) side GND and the NEUTRAL (secondary : ) side GND. Therefore, care must be taken for the following points.

- (1) Do not touch the LIVE side GND or the LIVE side GND and the NEUTRAL side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2) Do not short between the LIVE side GND and NEUTRAL side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and NEUTRAL side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

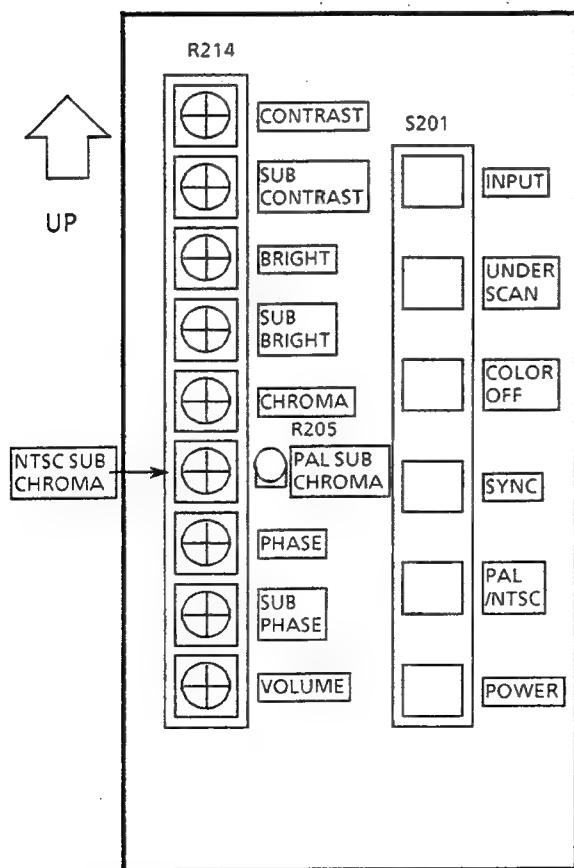
◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

MAIN PARTS LOCATION ALIGNMENTS LOCATION

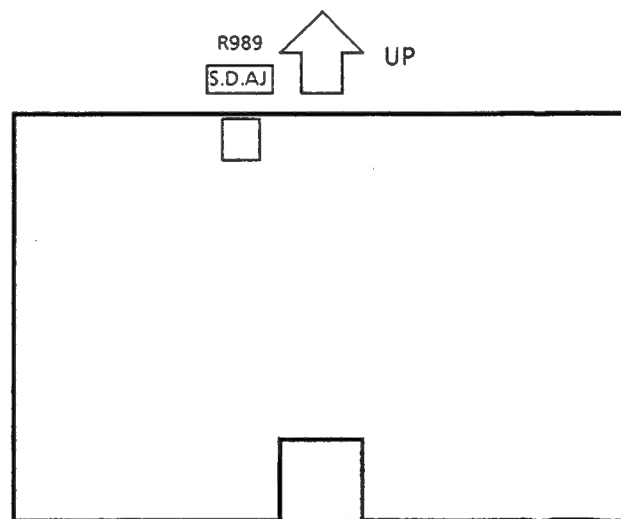




SIGNAL PB ASS'Y (FX-1044A)



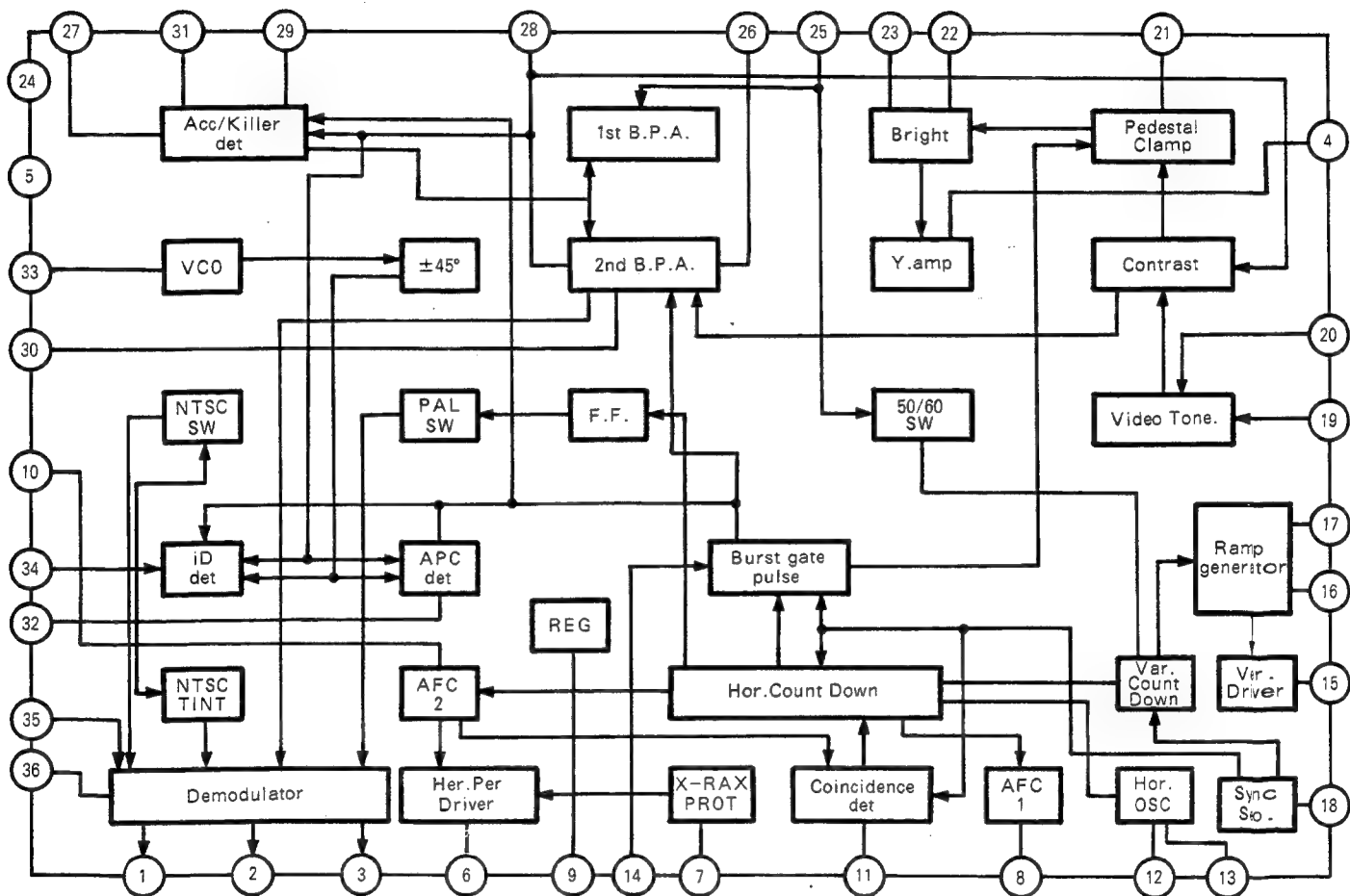
CONTROL PB ASS'Y (FX-4021A)



INPUT PB ASS'Y (FX-6029A)

IC BLOCK DIAGRAM

FX-1044A IC101 M52025SP



JVC

SERVICE MANUAL

COLOUR VIDEO MONITOR

TM-600PN

Supplementary

Since some details of the TM-600 service manual (No.50776, Apr. 1993) were incorrect, we are informing you of these errors and of the correct descriptions.

1. CORRECTED ITEMS

PRINTED WIRING BOARD PARTS LIST (Page 32)

DEF PW BOARD ASS'Y(FX-2017A)

	SYMBOL No.	PARTS No.		PARTS NAME	REMARKS
		INCORRECT PARTS No.	CORRECT PARTS No.		
⚠	F901	QMF51E2-1R0S	QMF51E2-2R0S	FUSE	2.0A

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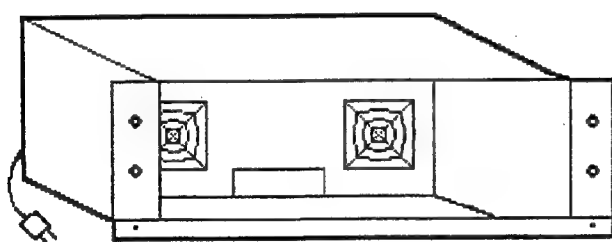
JVC

SERVICE MANUAL

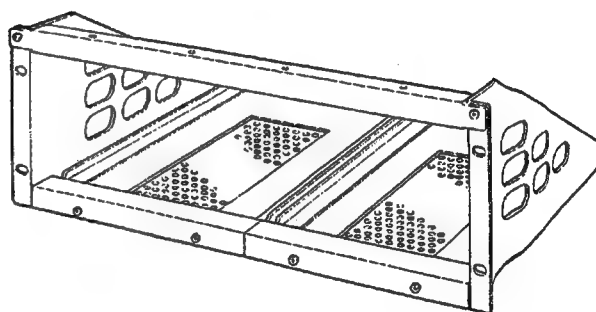
RACK MOUNT ADAPTER

RK-603E/604E

Technician Installed
Sales Promotion Accessories



RK-603E



RK-604E

Rack mount adapters are available as optional sales promotion accessories for the TM-600PN and TM-550U color video monitors. These enable installing the monitors in an EIA rack.
The main features are as follows.

RK-603E: 3 H size (with cooling fans)

RK-604E: 4 H size

Consult the JVC sales representative regarding these products.

Design & specification subject to change without notice.

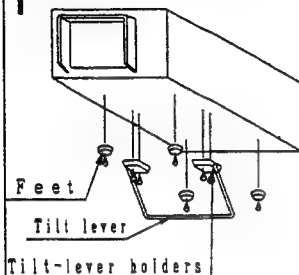
INSTALLATION INSTRUCTIONS RK-603E RACK MOUNT ADAPTER

(USE FOR EIA19" RACK)

Thank you for purchasing the RK-603E Rack Mount Adapter. This rack mount adapter is designed specifically for the installation of two TM-600PN color video monitors. Before installation, carefully read their instructions.

INSTALLATION

1

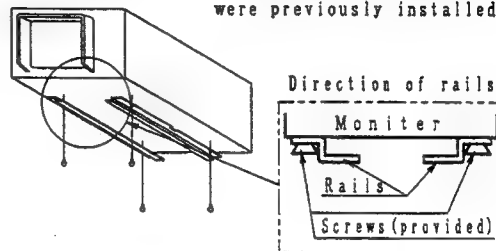


Remove the feet (four pieces), tilt-lever holders (two pieces) and tilt lever (one piece) from the bottom of each monitor by removing their respective screws.

(Removed parts are not asked when installing the monitors to the rack mount adapter. However, you are recommended to store them in a safe place.)

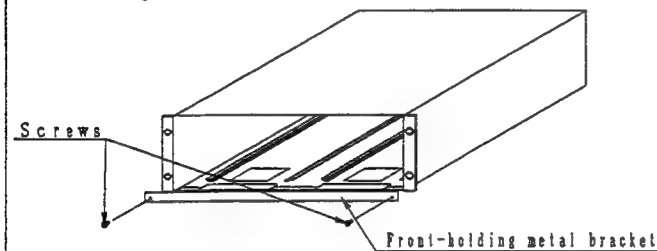
2

Using the provided screws (four pieces), secure the two rails to the screw holes where the feet were previously installed.



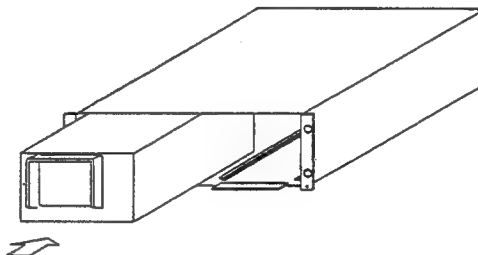
3

Remove the front-holding metal bracket installed on the front of the rack mount adapter shown below, by removing the two screws.



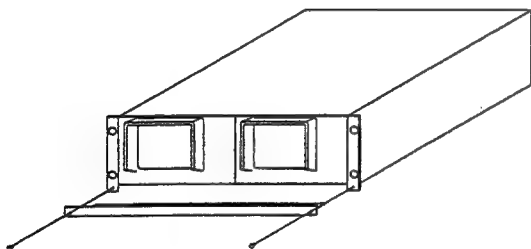
4

Align the rails and the rail guides, then slide in each monitor.



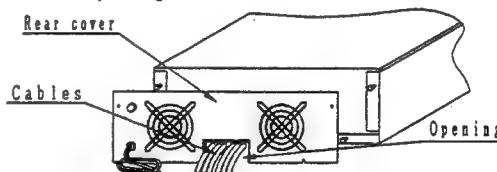
5

After installing the two monitors, reinstall the front-holding metal bracket.



6

Remove the rear cover by loosening the four screws. (It is not necessary to remove the screws. The rear cover can be slid up and removed after loosening the screws.) Connect the power cord and signal cables etc., to the monitors. Reinstall the rear cover while passing the cables through the opening in the lower center of the rear cover.



CAUTIONS

- This rack mount adapter has no power switch.

This rack mount adapter has no power switch. It is to prevent the user from forgetting to switch on the power supply to the fan motors inside the rack mount adapter. Therefore, as long as the power cord of the rack mount adapter is connected to an AC outlet, power is supplied to the fan motors. If it is required to interrupt the power supply of the rack mount adapter, it is necessary to use the power switch provided on the AC outlet side before doing so.

To prevent electric shocks, disconnect the power cord of the rack mount adapter from the AC outlet for installation and removal.

- Is the fan working?

Before using the monitors, connect the power cord of the rack mount adapter to an AC outlet. Confirm whether or not the fans inside the rack mount adapter function correctly. If the monitors are used with the fans not working, this could cause malfunction. NEVER insert objects into the fans through their ventilation slots, etc.

SPECIFICATIONS

Type	: Rack mount adapter specifically for color video monitor TM-600PN (2 units installable)
Power requirement	: AC220-240V 50Hz
Power consumption	: 18 W / 16 W
Weight	: 7kg
Accessories	: Rail X 4 Rail-installing screw (M4 flat screw) X 8 Front-holding metal bracket (installed on the unit) X 1 Screw (Installed on the unit) X 2

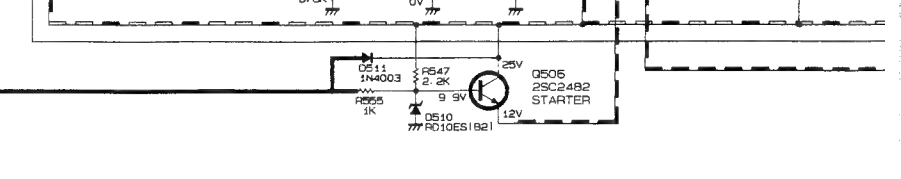
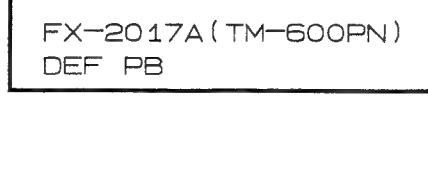
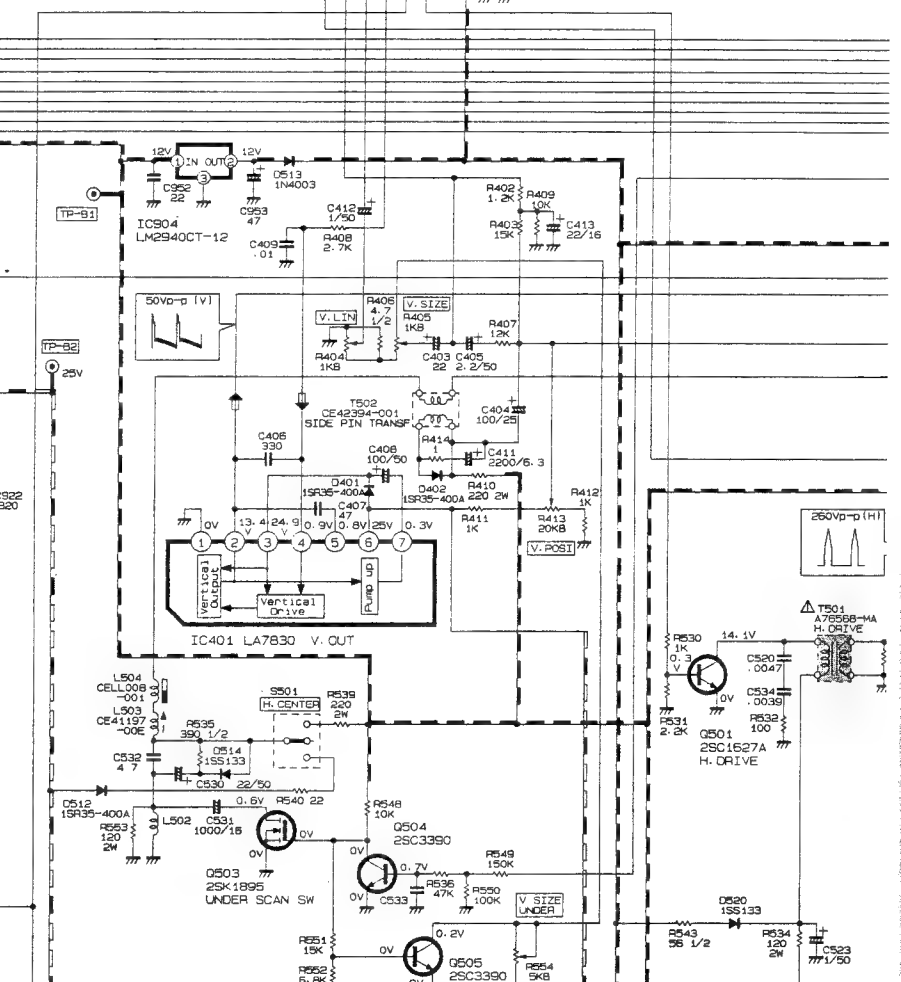
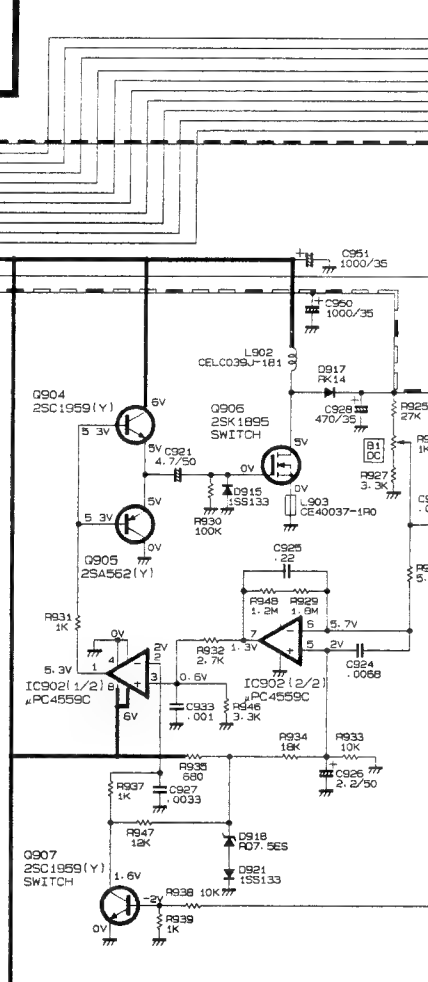
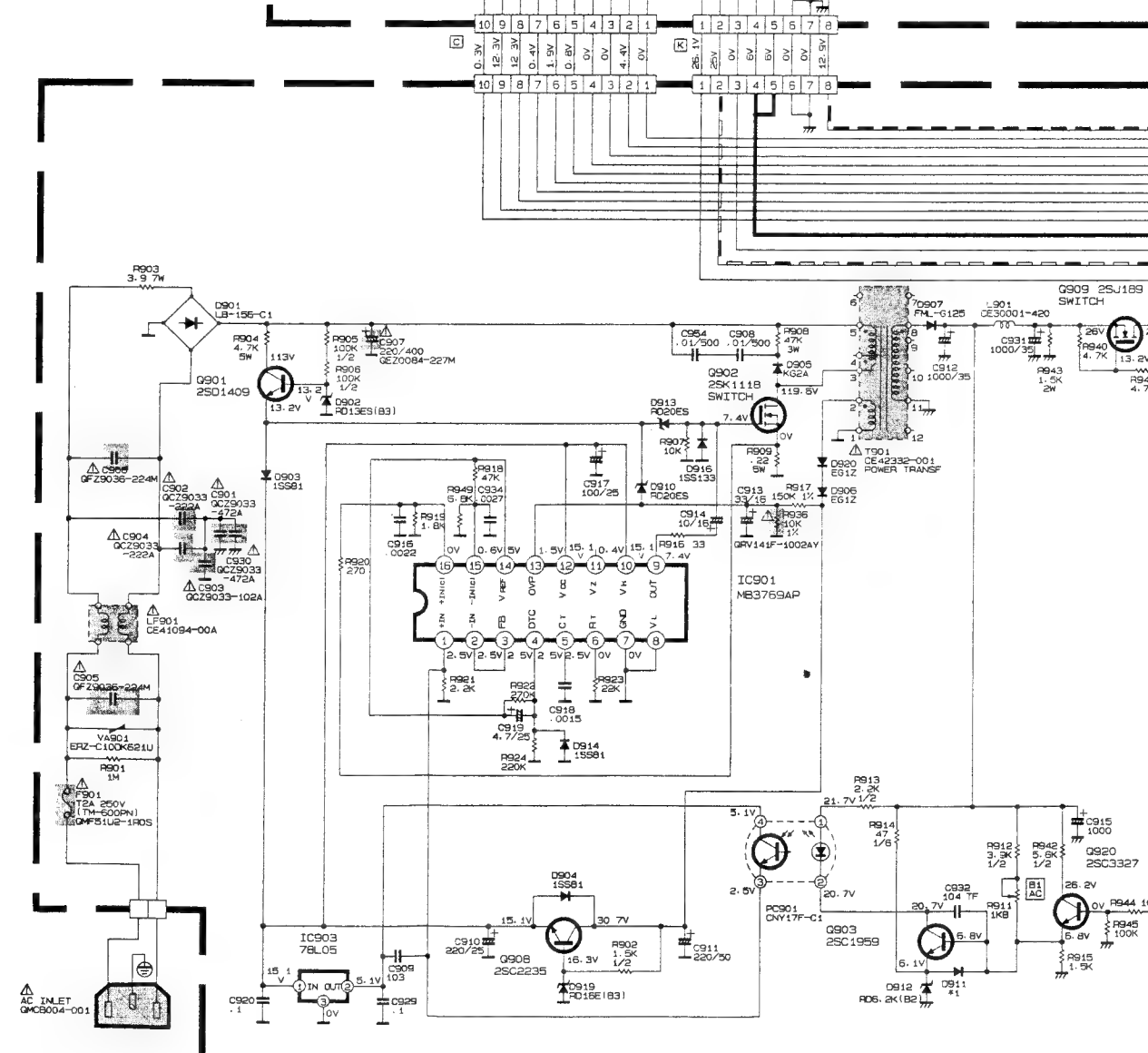
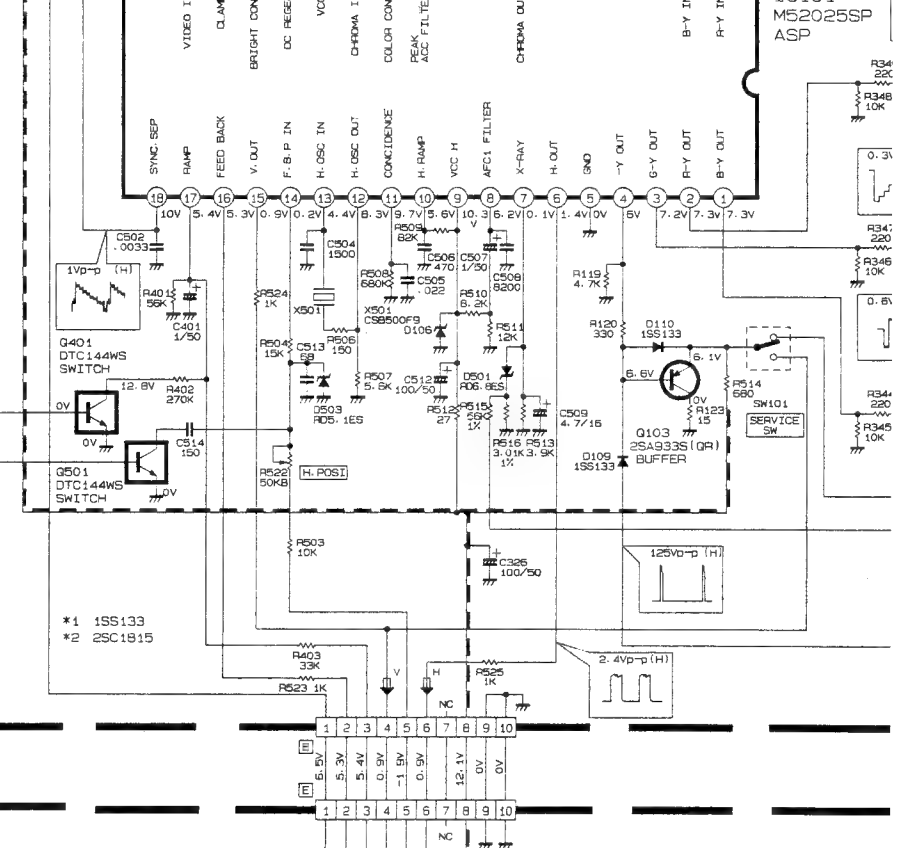
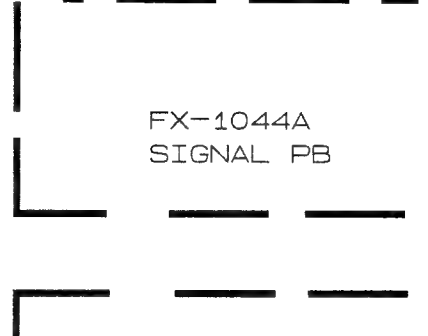
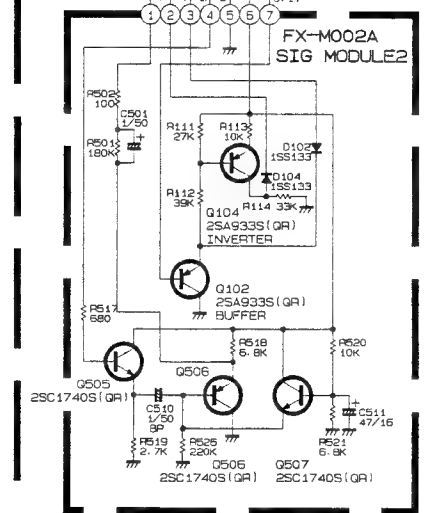
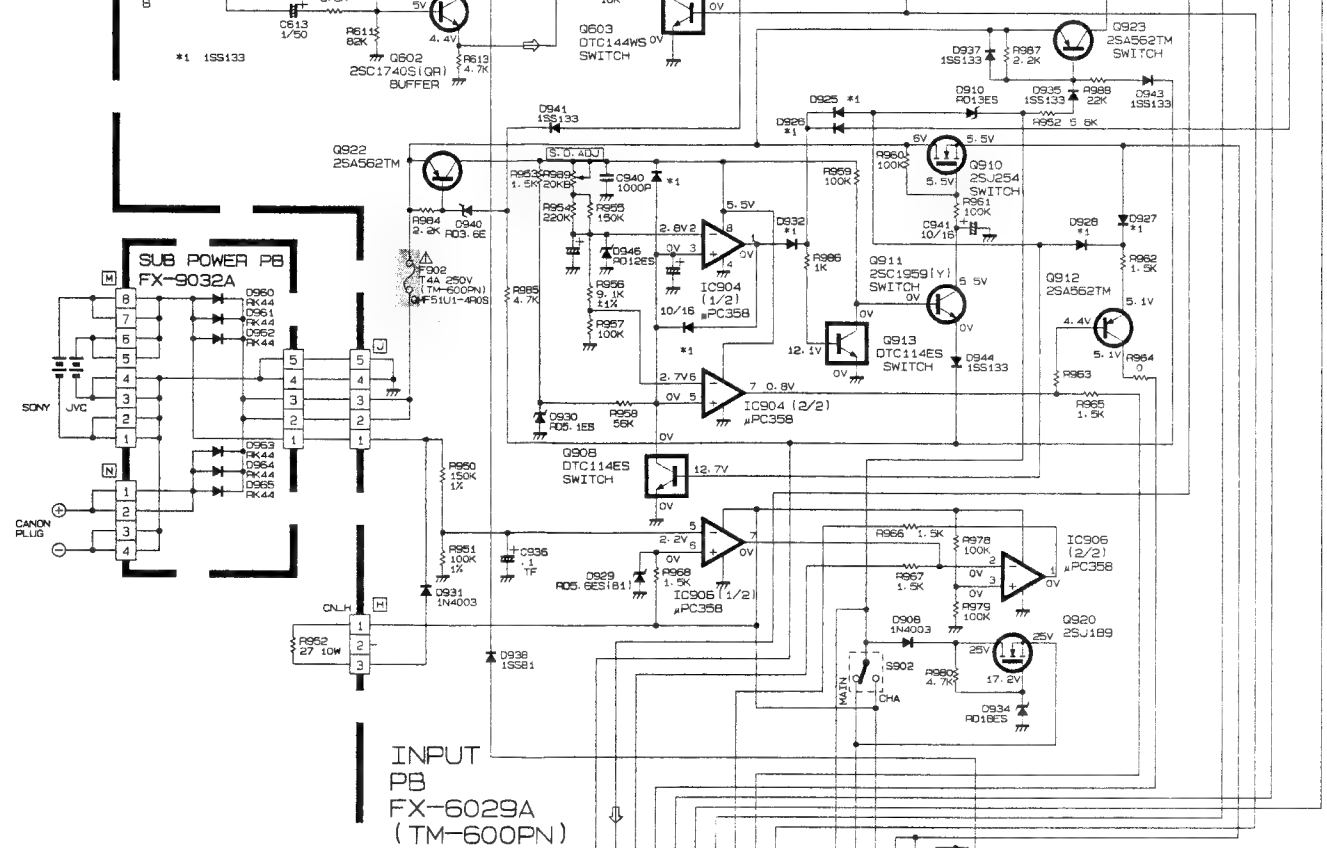
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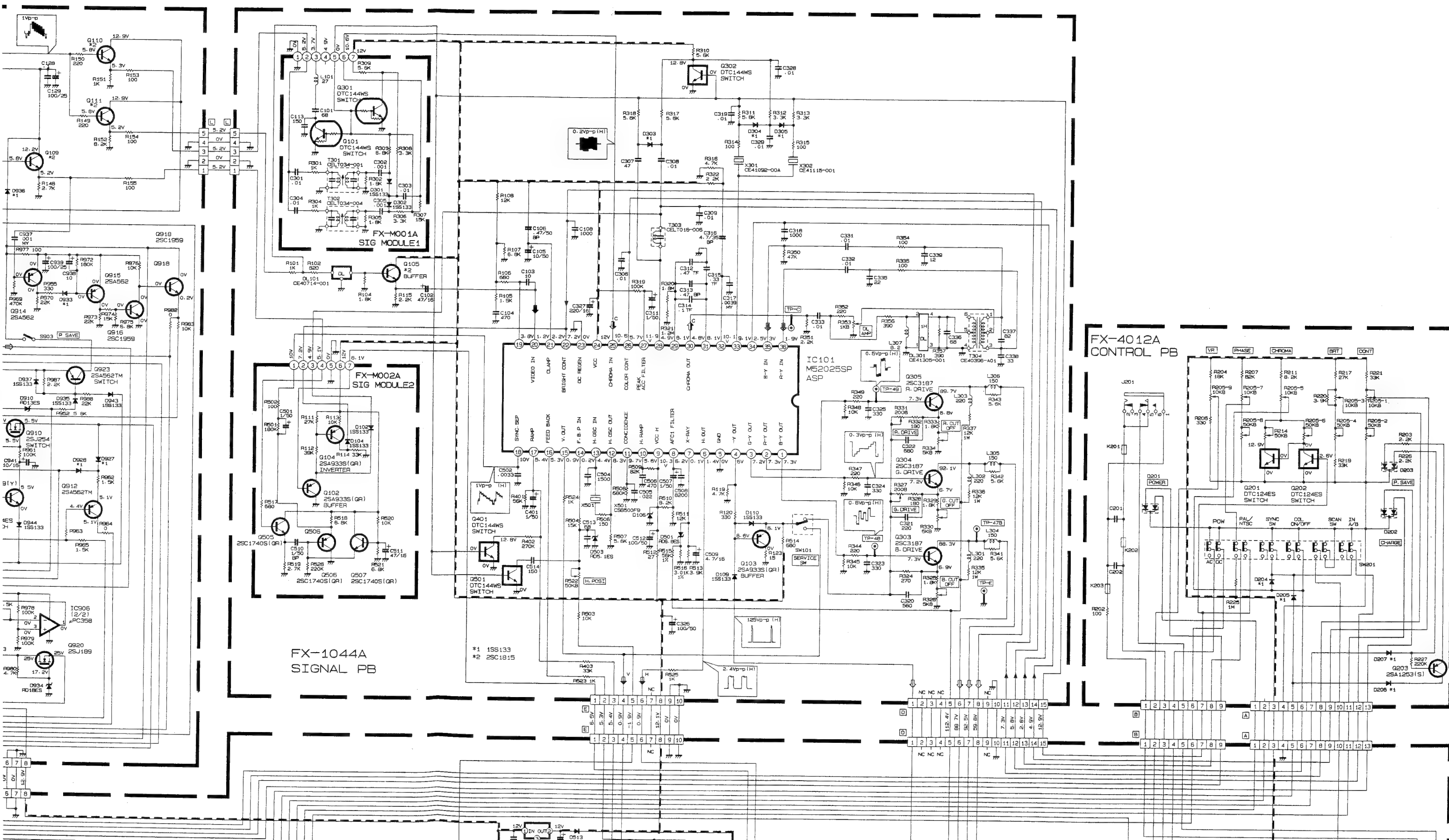
CM22771-00 2

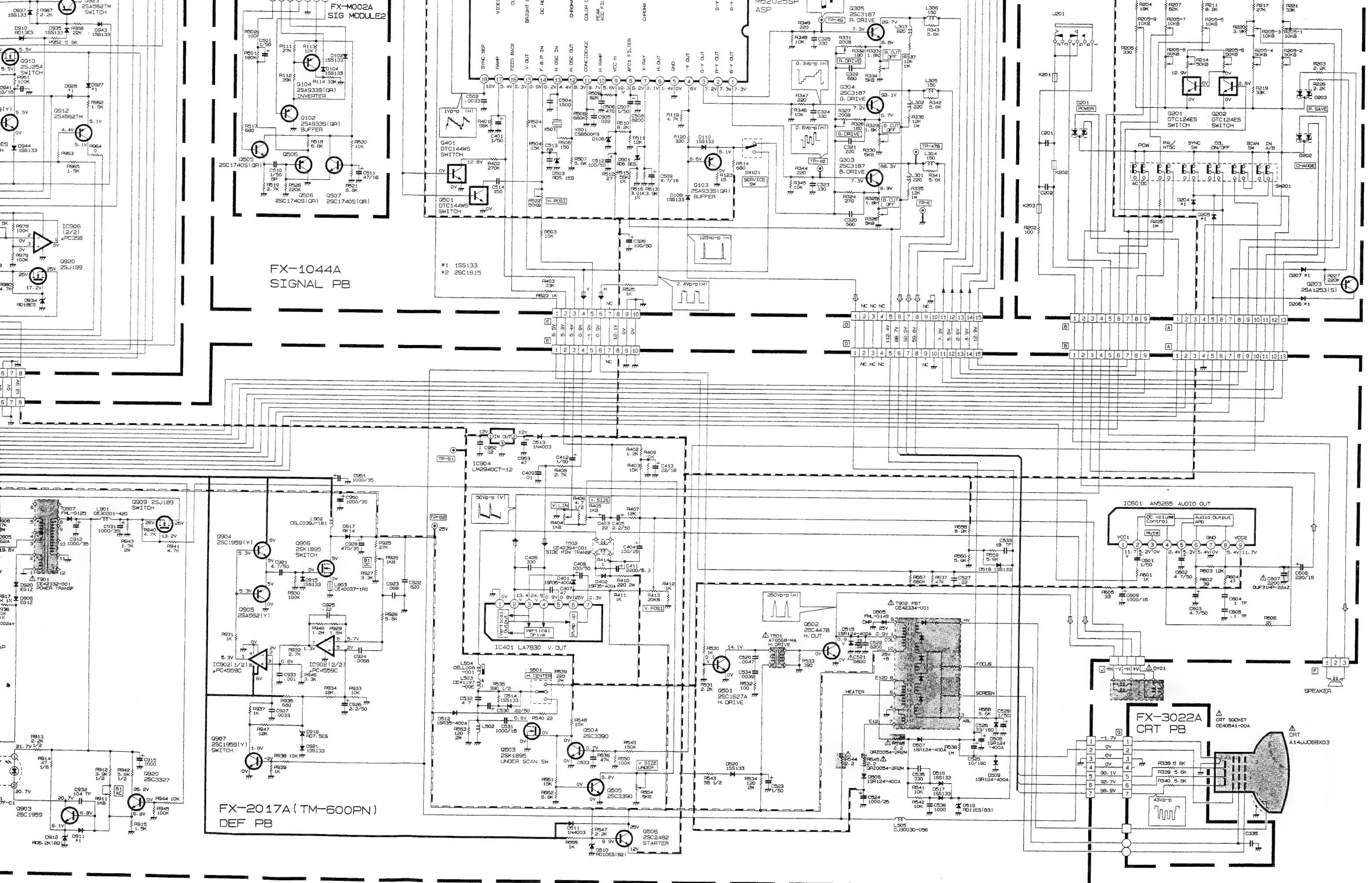
The schematic diagram illustrates the internal circuitry of a Sony CCD camera, organized into several functional blocks:

- VIDEO:** Processes video signals using IC102 (TC4066BP) and IC101 (M52025SP ASP). It includes various buffers, switches, and timing components.
- SYNC:** Handles synchronization signals using IC105 (2SC1740S(QR) BUFFER) and IC106 (2SC1740S(QR) BUFFER).
- AUDIO:** Processes audio signals using IC602 (TC4066BP) and IC601 (2SC1740S(QR) BUFFER).
- SUB POWER PB (FX-9032A):** A sub-power board that provides power to various components.
- INPUT PB (FX-6029A (TM-600PN)):** An input board that receives signals from the camera's sensors.
- SIG MODULE1 (FX-M001A) and SIG MODULE2 (FX-M002A):** Signal processing modules that handle video and audio signals.
- FX-1044A SIGNAL PB:** A signal processing board that manages the overall signal flow.

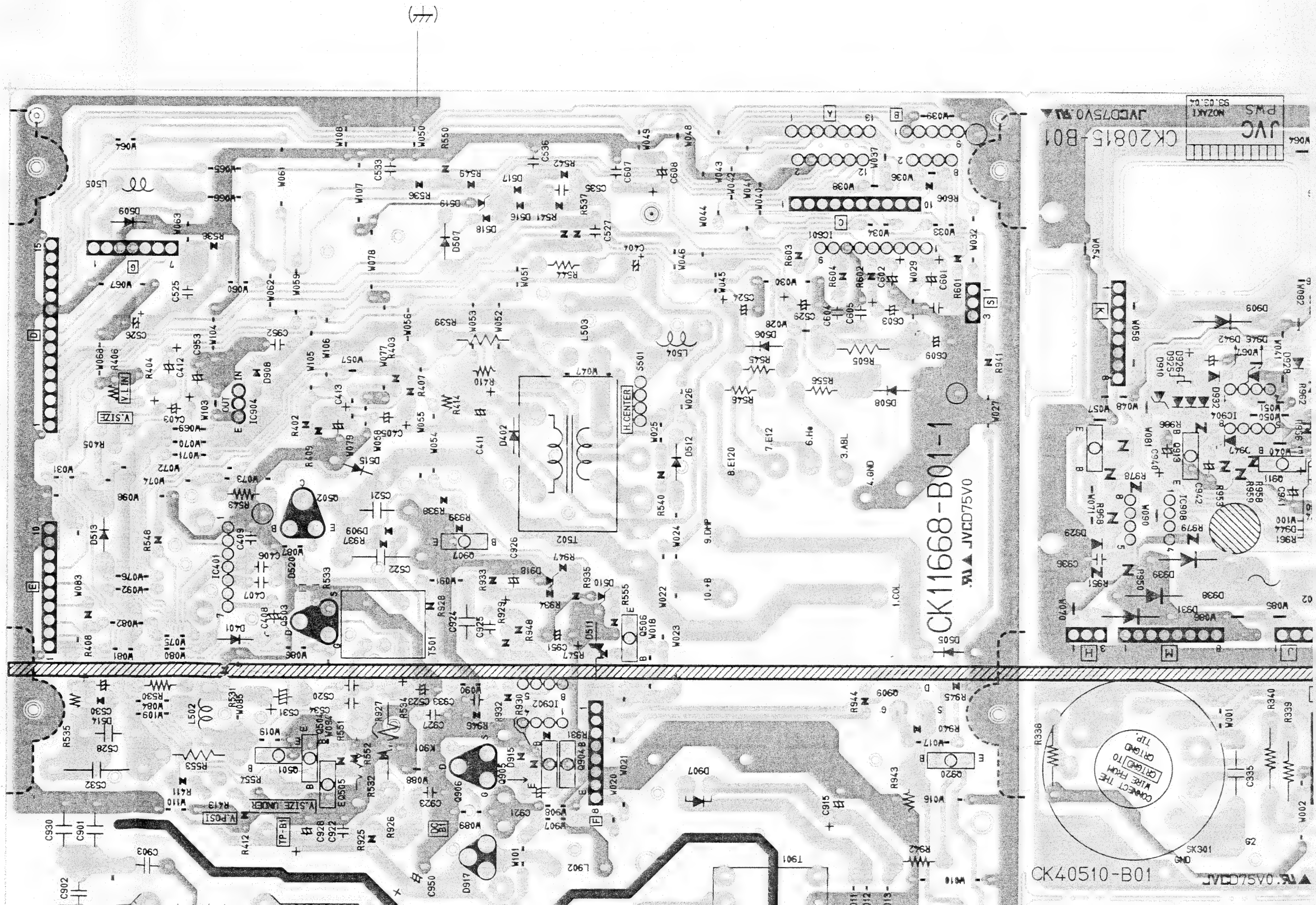
The diagram includes numerous components such as resistors (R1, R2, R3, etc.), capacitors (C1, C2, C3, etc.), transistors (Q1, Q2, Q3, etc.), and integrated circuits (IC1, IC2, IC3, etc.). It also shows various connectors and switches, such as the CANON PLUG and the SERVICE SW.

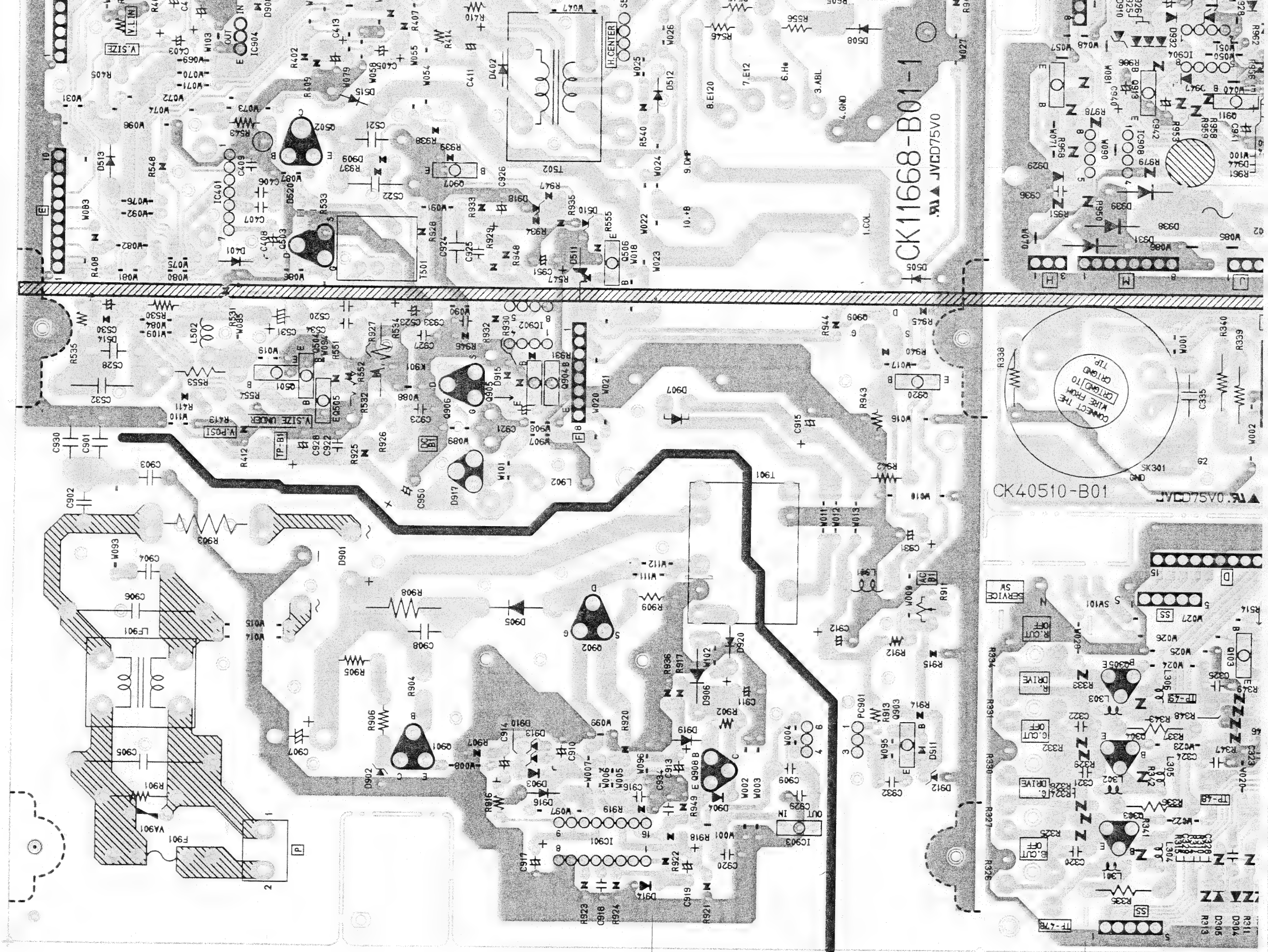


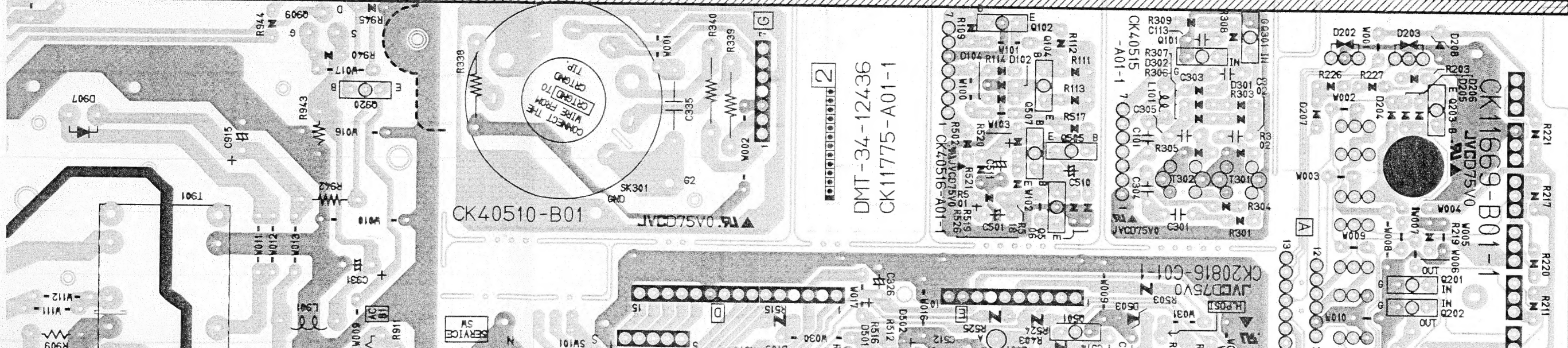
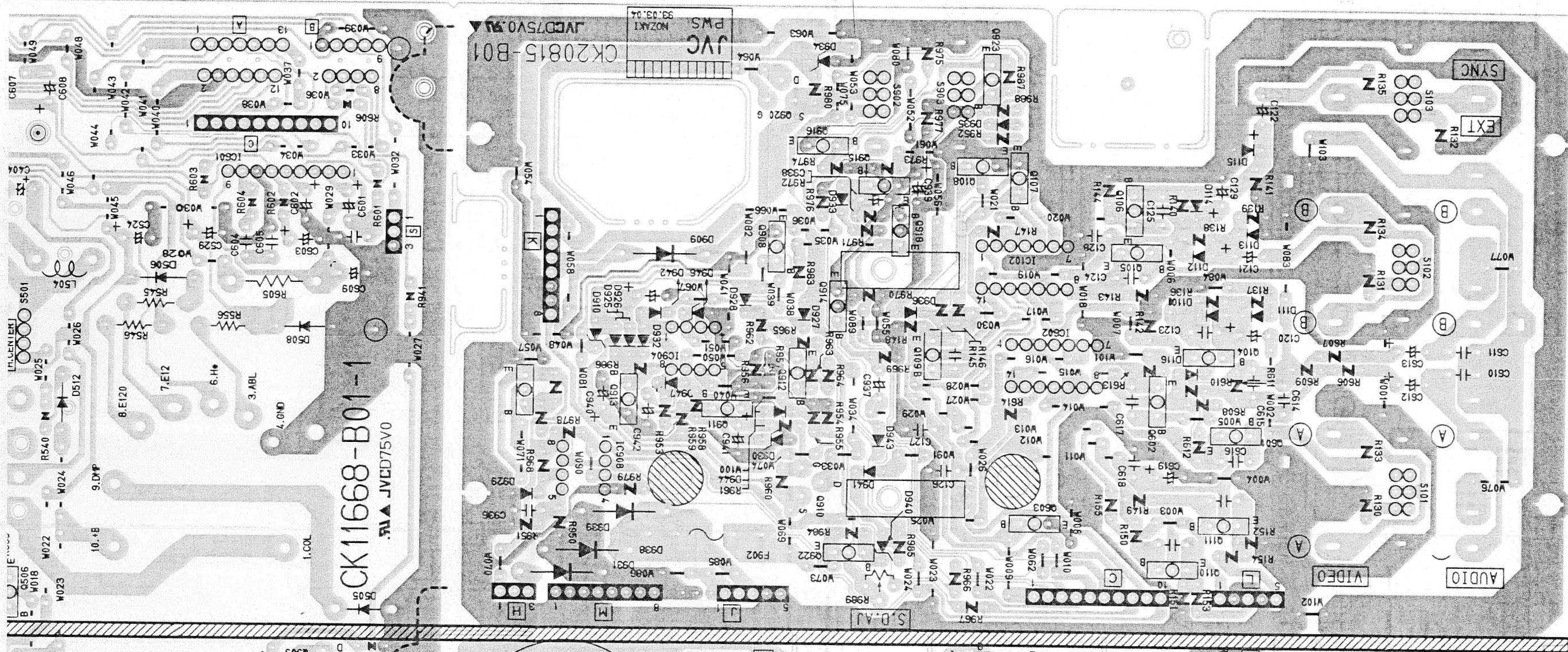




PWB BACK PATTERN







INSTALLATION INSTRUCTIONS RK-604E RACK MOUNT ADAPTER

(USE FOR EIA19" RACK)

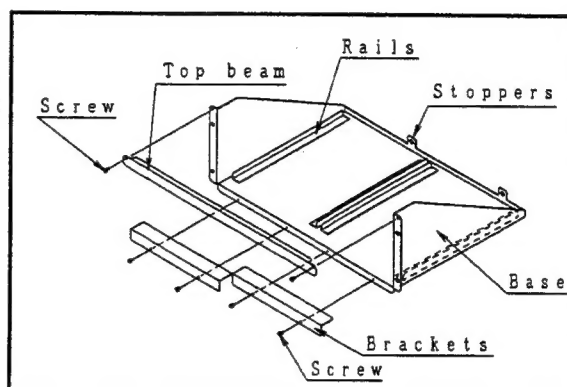
Thank you for purchasing the RK-604E Rack Mount Adapter. This rack mount adapter is designed specifically to install two TM-600PN color video monitors to the EIA 19" rack. Before installation, carefully read their instructions.

PARTS

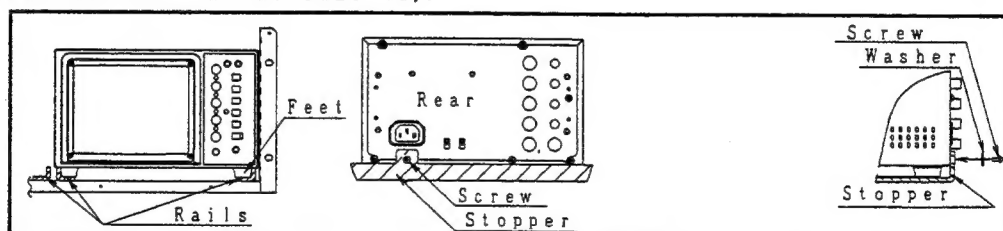
■Base.....	1
■Top Beam (installed).....	1
■Bracket (installed).....	2
■Screw (installed).....	6
■Washer.....	2

INSTALLATION

1. Remove the top beam and the two brackets, installed on the front of the base, by removing their screws (6 pieces).



2. After placing the feet of the monitor on the respective rails, while checking the rear of the monitor and the stopper on the base, adjust the location of the monitor so that the head of the screw, located below the AC inlet on the rear of the monitor, can be viewed through the hole of the stopper. Then after removing this screw and inserting the washer, re-tighten the screw. Install the other monitor in the same way.



3. After inserting the brackets under the respective monitors, reinstall each bracket using the two screws. Also reinstall the top beam using the two screws.

CAUTION:

Make sure the heat coming from the monitors inside is properly ventilated by using fan unit when they are operated in the ambient temperature more than 30°C. Insufficient heat ventilation could result in a monitor malfunction.

EXTERNAL DIMENSIONS (W X H X D):

481 X 176 X 314mm (without monitors)

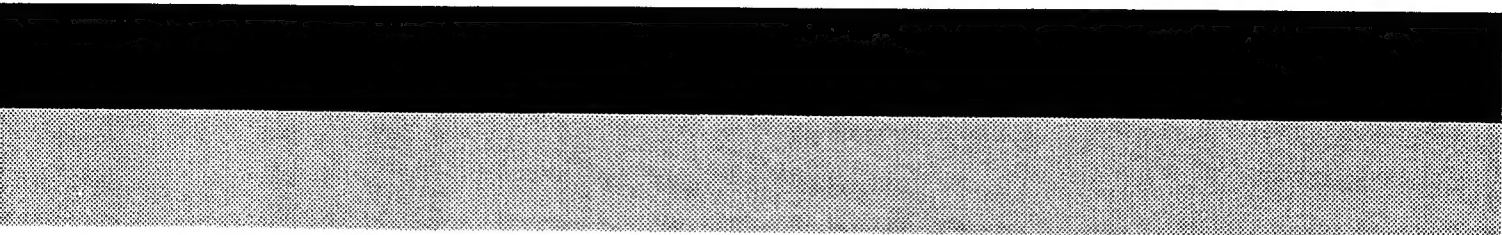
WEIGHT:

3.0 kg (without monitors)

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VICTOR COMPANY OF JAPAN, LIMITED
IMAGING SYSTEMS DIVISION 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-06, Japan



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